

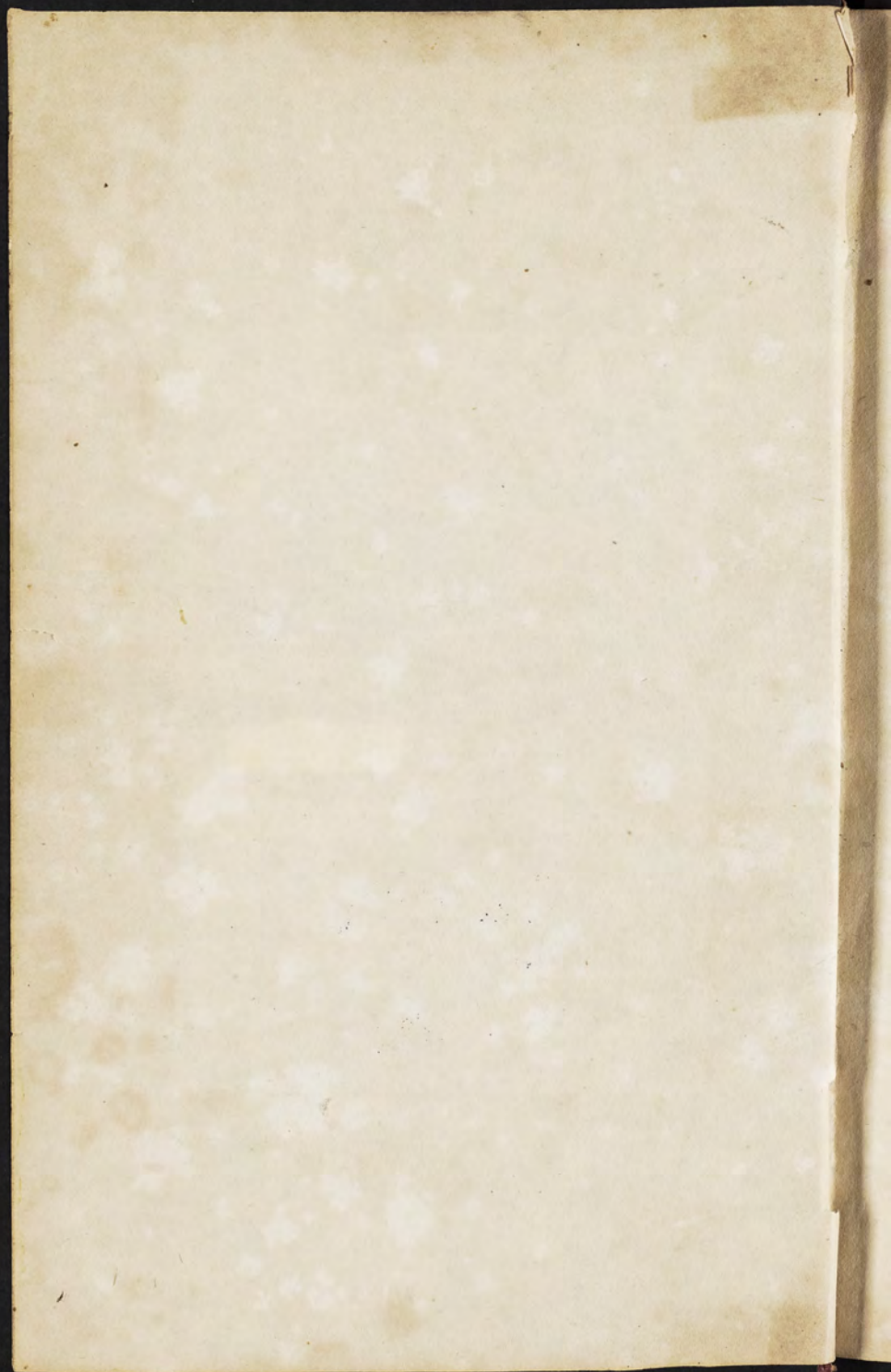


H. Lenox Lodge, M.D.



343







Edward Barton

Philadelphia April 1815.

Vol. 2





20412



Of particular diaphoretics, or the best means of exciting perspiration. - These are arranged according to their mod. operandi & are divided into 3 species.

1. Those which increase the action of the heart & arteries; 2. Those which stimulate the exhalents; 3. Those which produce a relaxation of the surface. And first of those which increase action of system; Opium; As it stimulates highly, in order to procure its diaphoretic effects it is usual to combine with it Ipecac or antimony: thus take of Laudanum  $\text{gt XX.}$  (or *Chis. paragonic*  $\text{ʒi}$ ), antimonial wine  $\text{gt XL.}$  & dule.  $\text{ʒss.}$  Nitro  $\text{ʒi.}$  Water  $\text{ʒi.}$  mix for a draught, to be repeated every 3 or 4 hours, as circumstances require. - But of all the diaphoretics, the best I know is the Dover's powder; being moderately stimulant, and at the same time relaxing to the surface, it is applicable to a vast variety of cases; it is composed of Ipecac, & Opium  $\text{aa grj.}$  Nitrate or Sulphate potash  $\text{grs viij.}$  &c. & is to be promoted by diluent drinks, particularly wine & whey, which seems to answer best in assisting the diaphoresis; but these drinks are not to be taken before half an hour after the Dover powder, otherwise they will cause it to purge. Besides these, Opium is used in combination with a number of other articles.

Camphor is not generally diaphoretic alone, but is combined with opium &c. thus R. Camphor, *big*  $\text{ʒij.}$  *grs i.* Calomel  $\text{grs ij.}$  - or in place of Calomel,  $\text{ʒss}$  of Ipecac; or sometimes the whole together;  $\text{q. s. h.}$

Carbonate of ammonia is a diaph. & is well adapted to low stages of fever &c, but many of its preparations are more diaph. than it; The aqua Ammoniac acetata, or Spiritus Mindereri was once very much used, but has been superseded by far less valuable ones; it is however once more acquiring a reputation as a diaph. & febrifuge.

- more properly the Enpat. Connation.



a tablespoonfull every two or three hours is an active <sup>125.</sup>  
and very useful diaph<sup>c</sup>. - I have long used it, &  
think it the best calculated <sup>of all our diaph<sup>c</sup>s.</sup> to induce diaphoresis  
in the paroxysm of interm<sup>t</sup>. As it is not very stim-  
ulating, it may be given with less caution than  
many others, & as it is a cordial & pleasant med<sup>c</sup>, it  
will be readily retained by the stomach, when  
every other one would be rejected; besides this it  
is refrigerant and gently laxative. -

- The *Eupatorium perfoliatum* or thoroughwort  
may be so managed as to be emetic, cathartic,  
diuretic, tonic, & powerfully diaphoretic;  
but it is this last property which renders it  
most valuable. - it is a native of this country  
and grows abundantly in every part of it. (it is annual)  
Every part of the plant possesses power, but the flowers  
are the most active. Exhibited in strong infusion,  
they seldom fail to excite profuse diaphoresis,  
& prove eminently beneficial in Fevers. -

In the Yellow Fever of '98. when the sweating mode  
was introduced, Dr Rush's favourite remedy was  
the *Eupatorium* - Dr Horack also used it with success  
in Y. F. of N. York, & also in interm<sup>t</sup>s. In some  
parts of this country it is given in infusion to the exacer-  
bation of the bark, & has obtained the name of *Aperitor*.  
It may be given during the paroxysm to produce  
diaphoresis, or during the apyrexia to prevent the  
recurrence of the disease; for the first view it must  
be given in warm infusion; but as a tonic, in  
a cold decoction, or in substance. -

In the prevailing Ephem<sup>er</sup>, the sweating plan in  
the 1<sup>st</sup> stage has been adopted, & the *Eupatorium*  
has been much praised; but being satisfied  
with the Dox. powd. I have never used it, but am  
informed by respectable authority, that it is very  
serviceable. -

It has been used in some dropsies, either with  
a view to its tonic or diaphoretic power; & the above  
distinction is to be remembered in its exhibition. -

- For an account of this affection, & the use of the Eupat.  
perfol. See Notison D.B.'s lectures - Vol 2. Page 23. -  
D.B. calls it the "James' River Ringworm" -

- (Dr. Physick says  $\frac{1}{2}$  is full enough to begin with, &  $\frac{1}{4}$  would  
generally be rejected; he adds that Dr. Rush & Dr. Wistar are  
of the same opinion - best to feel the way before giving too much. E.B.)



Dr Barton says it is well adapted to some chronic cutaneous affections, particularly one peculiar to the Southern States. This might be expected from its active effects on the skin, and perhaps also from its tonic power. — It is undoubtedly the most valuable of our indigenous plants; & is so good an emetic that Dr Rush called it "the vegetable Antimony".

There is another class of medicines, which act on the skin, but are not remarkably diaphoretic; such are Guaiacum, Mezereum, Sassa-parilla, & several species of Laurus.

Guaiacum or lignum vitae; of this genus there are 3 species, all natives of the W. Indies; the g. officinale is the one used in medicine. The wood & the gum-resin procured by exudation are used — it is a warm stimulant, generally diaphoretic, but sometimes diuretic and purgative. The wood is given in strong decoction, of which a quart is taken daily. This medicine was first used in Lues venerea, & for a time enjoyed great confidence, before mercury was known as an antidote to the venereal virus.

Whatever efficacy it may have in relieving the symptoms of the secondary stage of lues, it is wholly inadequate to the cure of the disease. Mr. Pearson Surgeon General to Lock Hospital, where there are sometimes 3000 venereal patients, has given it a fair trial & declares it to be "incapable of curing the disease; but in cases where the strength is impaired by a successful mercurial course, the membranes remaining thickened, or foul indolent ulcers still existing, then symptoms will often yield to the Guaiacum; but in no case will it take the place of mercury". — See Mr. Pearson's work.

The Guaiacum is a valuable remedy in Rheumatism & Gout, but never should be given in decoction in these diseases. The tinctures are to be used, of which there are two kinds; the simple, a solution of the gum-resin in alcohol, which I have rarely used, & the volatile tinct. which is far superior. The dose generally recommended is inefficient, — instead of a teaspoonful, ℥i or at least ℥ss should be given,

*[The text on this page is extremely faint and illegible due to fading or bleed-through from the reverse side. It appears to consist of several paragraphs of handwritten or printed text.]*



on going to bed, & followed by wine & whey &c. - If guaiac 127.  
has lost any part of its reputation, it is because it is  
given in too small doses. I never saw more effects from  
a tea-spoonful of the tinct. than from so much water.

The Powder is also used, in doses of  $\times$  or  $\times \times$  grs; more may  
be safely given; but it is inferior to the tincture.

Guaiacum is also used in Arthritic affections,  
partic.<sup>ly</sup> the irregular forms, in arthritic Colic &c.  
The g. will relieve the regular paroxysm, & is used  
also to prevent the recurrence of it; as a preventing  
ʒij or iij - are to be taken daily. -

Deserion - the wood of the Daphne Mezereon.  
it is acid to the taste & considerably aromatic;  
a stimulating diaphoretic, or somet. Diuretic; it  
resembles Guaiac & is used for the same purposes.  
In Syphilis its reputation rests precisely on the  
same foundation as the Guaiac. (Dr Pearson again)

Smilax Passaparilla; once used as a diaphoretic,  
and among the advocates of the humoral pathology,  
as a purifier of the blood; hence it was used in  
ulcerations, in Syphilis, diseases of the Skin, & to check  
the effects of a severe mercurial course; it is  
now much used in Rheumatism; it is ana-  
logous but much inferior to the two former.  
It is used in the same diseases & same quantities  
as the D. Mezereon -

The only species of Laurus I shall here notice  
is the L. Sassafras; it is a fine aromatic, & is used  
in decoction; except Guaiac, it is the most power-  
ful of this class. - The Lisbon diet drink, or  
Decoctum Lusitanicum, Decoction of the woods &c  
is thus made. R. of the woods of Sassaaparilla

..... Sassafras  
..... Red Sanders  
..... Guaiac. - aa ʒij.  
..... Mezereon - ʒi.  
..... Seed of Coriander - ʒij.

Boil then in the  $\times \times$  water, till reduced to the  $\times$  - strain  
& give ʒss three, four or five times a day.





We proceed now to the second division of diaphor.  
or those which produce a relaxation. There are but  
few which have this property exclusively; most of them  
are at the same time emetic, or purgative. Among  
them the neutral salts are some of the most  
important. In febrile affections this prep.<sup>n</sup> is  
an excellent diaph.<sup>c</sup>.  $\text{R}$  Sulph. Soda  $\text{ʒi}$ . Emetic  
Tartar  $\text{ʒij}$ . Lemonjuice  $\text{ʒi}$ . Water  $\text{ʒiv}$ .  $\text{℥i}$ .  
 $\text{ʒj}$ .  $\text{q. s. h.}$  - if given oftener or in larger dose,  
it will prove emetic & purgative.

Nitrate of potash is a very useful medicine,  
but I think it is not so remarkably diaph.<sup>c</sup>;  
it seems to act by abating arterial action &  
as a refrigerant, as do the acids. Nitro  $\text{ʒss}$  X. Emet.  
Tart  $\text{ʒss}$  or  $\text{ʒj}$ . Calomel  $\text{ʒi}$ .  $\text{ij}$  -  $\text{ij}$  - form the Anti-  
monial powder of Dr Rush.

All the antimonial preparations may be so  
managed as to prove diaphoretic; but the best  
of them are James's powder, & Emetic tartar.  
The dose of the former is from  $\text{ʒv}$  to  $\text{ʒx}$ . & of the  
latter from  $\text{ʒij}$  to  $\text{ʒss}$   $\text{q. s. h.}$  - Perhaps it  
would be better to give it oftener & in smaller  
quantities; for it is always of consequence to  
keep up the impression of medicine, & to  
none does this remark apply so forcibly as to the  
diaphoretic -

Specac also proves an excellent diaph.<sup>c</sup> in  
doses of  $\text{ʒij}$   $\text{q. s. h.}$  Its efficacy is still greater  
when combined with Opium as in Dover's powder.

Carbonate of potash with some vegetable  
acid, taken in the form of the effervescing  
draught, or in simple solution; the former  
is made thus: Sal Tart.  $\text{ʒss}$  or  $\text{ʒi}$ . in half wine  $\text{ʒss}$ .  
full of water, & lime ~~juice~~  $\text{ʒi}$  diff. - This is to  
be taken in the effervescing state. The Carbonic  
acid is disengaged, checks the vomiting and



- Cold water internally. Celcius speaks highly of it in the  
hot stage of fevers; but of this hereafter under Miscellanea.

promotes diaphoresis; the carb. pot. may also begin 129.  
in simple saturating solution. Thus, Water &  
lime juice (or sharp vinegar) aa ℥ij. add to this,  
Salt of tartar to saturation, that is, till effervescence  
ceases & then ℥ij sugar. — This forms an excellent  
preparation, for checking vomiting & producing  
sweating. dose ℥ss. q. 2. vel. t. h. —

The 3<sup>d</sup> division are those which act immediately  
on the exhalents; as heat applied to the surface  
either in a dry or moist state. heated bricks,  
bottles of hot water, applied to the feet, thighs,  
axilla &c. the body being kept warm by a  
more than ordinary quantity of clothing, & a  
free use being made of warm infusions of  
moderately cordial aromatic herbs. In some  
local pains, it is often convenient to substitute  
for these, bags of heated salt, sand or ashes; In some  
cases of colic, a large bag filled with hot mud <sup>applied to abdomen.</sup>  
relieves the pain almost immediately.

Vapour or Steam is sometimes preferred, &  
is applied by pouring vinegar &c on heated bricks,  
& wrapping them in flannel. — Batting of the  
feet in warm water. — A Tepid, warm  
or hot bath. But of these we shall speak fully  
under the head of Miscellaneous. — Frictions &c.



*[The text on this page is extremely faint and illegible, appearing as a series of horizontal lines.]*

*Emmenagogue*. — Emmenagogues are such medicines as are supposed to promote the menstrual discharge; of their uncertainty every one complains; & by most physicians it is attributed to our want of medicines, which act directly on the uterus; but I believe that we have such medicines, and that our failure depends rather on our mistaken notions of the nature of the Catamenia, & our want of attention to the state of the system. In fact our practice has been in a great degree empirical; & to obviate this, I shall commence the subject by a brief enquiry into the nature of the discharge. —

Contrary to the generally received opinion that the menstrual discharge is mere blood, I maintain it to be a peculiar secretion, in support of which, the following are the leading arguments:

1. The uterus in its structure resembles a gland, and is liable to the same diseases as other glands.
2. Like other secretory organs, it is furnished with a very large quantity of blood.
3. By the arrangement of its vessels, the blood is retarded, so as to allow secretion.
4. In common with other secretions, menstruation is at first imperfect, & is afterwards subject to vitiation & derangement.
5. In many of the inferior animals, during the season of venereal inclination, there is a discharge from the uterus, which is undoubtedly a secretion. If the venereal desires suffer an exacerbation from restraint, the discharge becomes red.
6. In amenorrhoea, the discharge cannot be restored by inducing plethora; & when regular, it cannot be checked by us.
7. That the menstrual discharge is different from blood is manifest, from the difference of its colour & other sensible properties, from its want of coagulability, & from chemical analysis.



- See Eclectic Repository Vol. 2<sup>d</sup>. p. 97. On use of Phlog.  
Genef. in Amen<sup>a</sup> by Dr Chapman. -

The theory of the menses being a secreted fluid is attributed to  
Mr. John Hunter. It was maintained in a thesis at Gießen  
in 1778 by Dr Craven. -

It is objected that the uterus is not sufficiently glandular in its structure, I would ask, of what does a gland consist but a mere congeries of vessels? If a few vessels, creeping through the coats of the stomach, can secrete the gastric liquor, why may not the infinitely more glandular organization of the uterus elaborate the menstrual fluid? - Amenorrhoea then according to this theory is an interruption of the secretory action of the uterus.

I shall divide Emmenag. into two classes; 1. those which increase & 2. those which decrease arterial action; & first of the former is the

*Polygala Senega*, a native plant. The root is the only part used, & is bent & contorted & apparently jointed. - it is an active and diffusible stimulus; an expectorant, sialagogue, diuretic, diaphoretic &c at the same time increasing the action of the heart & arteries. O'Cuiller however thought it a very feeble medicine, and placed it among his Cath. <sup>cs</sup>, because, he said, its purgative property was the only decided one it possessed. From this I conclude his experience with this article must have been very slight; for it seldom purges, unless in very large doses, but produces its best effects, when not Cathartic.

Dr Tennant of Virginia in the beginning of last century, brought this medicine into use for the bites of venomous animals. but Dr Harterhome of this city we are indebted for the discovery of its efficacy in Amenorrhoea, in which it displays its best powers. As soon as I heard its use from him, I commenced experimenting with it, & have used it with such success, as warrants me in recommending it to you as our best Emmenagogue. It may be used in powder, gr<sup>ss</sup> or  $\mathcal{V}$ . at a dose, or in decoction, which last is far preferable;  $\mathfrak{z}$ ss of the root to a pint of water, simmer down  $\frac{1}{2}$ . of this  $\mathfrak{z}$ iv may be taken daily, but when the discharge is





expelled, the dose must be pushed much farther; I have given as much as ℥ij every hour for a day or two. During the intervals I omit it for a week. — It is apt to excite nausea & vomiting; if so, add some aromatic, or orange peel.

The following cases I have selected from a very large number, & they will suffice to show the decided efficacy of this medicine. — (Almost Hous)

Case 1.<sup>st</sup> A maniac aged 25 who had been confined in her cell for more than a year, being for the most part furious. She had been copiously depleted by every means, and had undergone a salivation &c. She had used the Digitalis, Tobacco, & many other medicines without any favourable impression. Being told she had not menstruated since her illness, I directed the Polyp. Senega; occasionally to lose some blood & to use the tepid bath. After a few days she was better, and at the end of some weeks a copious flow of the Catamenia came on, with the most salutary consequences. Her mind now became tranquil, and the medicine being continued, four weeks after she again menstruates, & becoming still better, she was dismissed. Her intellect however had been considerably injured by her long derangement, and did not quite recover its former standard. —

Case 2.<sup>d</sup> Also a maniac, in many leading features resembling the last one. — In this case however the mind was more sane, but a strong tincture of lewdness was observed in her deportment; and in less than a week, this was so much increased as to amount to confirmed nymphomania, associated with extreme mental vivacity, and apparent joyousness of heart. I immediately ordered the Polyp. Senega, which she took for a fortnight without advantage; the dose was therefore increased to ℥ij every hour. At my next visit, (3 days after), I was struck with



120  
The first thing I observed when I stepped  
out of the train was the cold air. It was  
a sharp contrast to the warm, humid  
climate of the South. The ground was  
frozen, and the trees were bare. I  
had heard that the North was a harsh  
land, and now I knew it was true.  
The people here were different from  
those in the South. They were  
taller, thinner, and had a more  
stoic expression. I felt like an  
outsider, and I was sure that  
they would never accept me.  
I had to find a way to survive.  
I had to learn their ways, their  
language, and their customs. I  
had to become one of them, or  
I would be left alone in a  
desolate land.

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alone in a desolate land.

the extraordinary alteration in her demeanor Instead of the eager & impassioned salutation which I had been in the habit of receiving from her, she remained on her bed tranquil and sedate. composed both in mind & body, she seemed to be indulging in melancholy Contemplation, from which it was not easy to divert her. Inquiring of the nurse, what had so suddenly revolutionized her condition, I was informed that she had been menstruating copiously for the last 36 hours. - I then omitted the med. & trusted to Nature, but in 3 weeks some menaces of a relapse appearing, I again resorted to the same med. which speedily had the desired effect, & she again became convalescent as before - My time of attendance now expired, & I am unable to say what the final result was. - See Eclectic Repository Vol 2<sup>d</sup> p. 94.

In all the forms of amenorrhoea, I suspect the Senega may be useful, if administered with a proper regard <sup>to</sup> the state of the system; but it promises to be particularly so in those cases where the decidua exists.\*

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\* See Burn's midwifery; Chapman's edition, for an account of this membrane, in Ed. note, on Amenorrhoea.



- a small evergreen shrub with short, prickly, narrow leaves;  
when old, it bears dark blue berries.

Lecture 28.<sup>th</sup> December 30<sup>th</sup> 1814. - 134.

*Juniperus Sabina* or *Savine*. a small evergreen shrub & a native of the South of Europe; the leaves only are used, & have a strong disagreeable smell & taste; it is nearly allied to *Senega* in its properties, & is a warm, powerful & diffusible stimulant, increasing the secretions, & determining with particular force to the uterus. It has been used to accelerate labour & to procure abortion, & of its efficacy for these purposes we have abundance of proof. It has always been remarked that it is particularly apt to produce hemorrhages from the uterus, & hence its use was indicated in Amenorrhoea. The first satisfactory account of its medical powers was given by Dr Home of Edinburgh; but Dr Cullen a still greater authority speaks slightly of it, & brought it into disrepute. It has however always been esteemed by many, & is now much used as an Emmenagogue, for which purpose it is recommended by Boerhaave. I have never been obliged to use it in Amenorrhoea, but from its general properties should judge it eminently useful in some cases. As it is a very active stimulant, it is to be used only in the atonic cases; indeed its loss of reputation, I think, was owing to its too indiscriminate use.

Of its utility in Chronic Rheumatism I can speak with unlimited confidence. I have now been in the habit of using it for 3 years, & am inclined to place it very near the head of medicine for Chron. Rheum. but for its successful application, it requires a nice discrimination in the choice of



THE HISTORY OF THE  
LIFE OF  
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Cases to which it is applied. These cases it is not easy to point out by any description, but by experience we are taught to distinguish them with considerable accuracy. There are many cases attended with cold skin, either dry or covered with a clammy sweat; rigidity of the joints, amounting sometimes even to loss of motion; pains often acute, & aggravated by vicissitudes of the weather &c, and this state will continue in spite of the best concerted plan of treatment. There is no doubt of the state of the parts in these cases. It is evident that the circulation is carried on imperfectly from a debilitated and exhausted condition of the vessels, which occasions them frequently to be thrown into painful Spasmodic actions, whenever external heat, or internal stimuli do not contribute to support them. That the pain under such circumstances is produced by a species of irregular convulsive motion, having its origin in the languor of the part, and not by inflammation, is evidently proved by the fact, that the disease never goes off by any one of the terminations known to inflammation. The joints will indeed continue, for a while, puffed, & the limbs swollen, but there is neither effusion nor suppuration. Conformably to this, Stimulants internal and external are used; Ammonia, turpentine, Cantharides, annu, mezerion, Sassaaparilla, guaiacum &c, and it is in these cases that Sarsine is so efficacious. It produces a heat and itching on the surface, sometimes an eruption, and ultimately some slight perspiration. Under its use the pulse becomes more forcible & voluminous, & the patient regains his strength, either from its tonic power, or from its alleviating the pain. —

I have used it with equal advantage in Syphilitic Rheumatism. As I consider this as purely a consequence of the use of Mercury, I am disposed to think the Sarsine would also be useful in other Mercurial diseases; but more of this, under Mercury.

By some recent journals, I find it is used in Europe in Gout; & Professor \*\*\* of Göttingen asserts that it gives tone to the alimentary canal, & relieves the nausea, flatulency, & acidity in atonic Gout; and also that it relieves the arthritic headaches, which I suppose generally depend on the state of the Stomach.



• - The serum has been a good deal employed as an antihelmintic  
and with some success. -

I sometimes recommend it even in the regular and inflamm.<sup>y</sup> 136.  
matory Gout, but this appears to me an improper  
practice. —

The dose is from grs XX to grs XXX; I generally begin  
with grs XV. t.d. & increase till some sensible effect  
is produced. I have given as much as ℥i. t.d. —  
if it purges, Laudanum may be used to pre-  
vent it. The oil is also used, but is very active.  
— dose ℥℥i, iv. or v. I prefer the powder. — The leaves  
are used externally as an escharotic, either  
in powder or infusion — Equal parts of the  
powder & verdigris form a good application  
for warts & other excrescences — The infusion  
is used as a wash for foul ulcers, for tinea  
capitis, &c. &c. The unguentum Sabine is  
used to drop blistered surfaces to keep up the  
discharge. —

The leaves of the Red cedar or *Juniperus*  
*virginiana* of Linnaeus are very similar  
in their properties to the Sabine, & may  
be a good substitute, at least, in the unguent for blisters. —

*Rubia Tinctorum* or Madder has long  
been used as emmenagogue. It tinges the  
urine & bones of a red colour, & hence was  
supposed to be an excellent deobstruent. Dr.  
Cullen thinks there is something inferior  
in its operation, & that it is quite useless  
in amenorrhoea — but Dr. Barton says he  
has seen it produce remarkable effects as  
an emmenagogue, & it has been often used  
to procure abortion. I have never employed  
it, as we have several more efficacious ones.  
A dose generally recommended is grs XX to grs XXX.  
but much more might be safely given.

- This is not the pennyroyal of the U. States, which is *H.  
"Cunila pulegioides".* —



*Rosmarinus officinalis* or Rosemary was formerly much used; it is a native of South of Europe but is cultivated here; it is a powerful and diffusible stimulus, acting particularly on the nervous system, and hence is used in Paralysis &c. Boerhaave used it with success as an emmenagogue, but Dr Cullen it is contemptuously noticed. I have however used it with great advantage. A tumblerfull of a strong infusion is to be taken 3 successive nights at bedtime, & then suspended.

Nearly allied to the *Rosmarinus* is the *Mentha pulegium* or penny royal, which was supposed to have a particular action on the uterus; Linnæus asserts that all mints are apt to produce uterine hemorrhages, but this I very much doubt. Haller says the pulegium with iron is an infallible emmenagogue; but this language is certainly too strong. Dr Cullen speaks slightly of it; I know nothing of its efficacy from experience but from its analogy to Rosemary (which I know to be useful) I should presume it to be worthy of a trial.

*Tinctura Cantharidum*. gr. x. t. d. increasing to  $\text{ʒij}$  or  $\text{ʒij}$  a day. it increases the pulse & proves diuretic.

*Oleum Terelinth.* ʒi. 6. vel. t. d. Combined with mucilage of Gum Arabic &c.

*Phosphorus*. I used it in one instance of amenorrhœa, but the prejudices of my patient made her desist from it too soon to see its effect. I gave  $\frac{1}{4}$  gr. t. d. intimately blended with olive oil & mucilage g. arabic.

In Typhus, gangrene &c it is highly recommended, & probably is a valuable medicine, as it is a very powerful stimulant.



Lecture 29<sup>th</sup> Paenology 2<sup>d</sup>. 1815.

138.

D<sup>r</sup> Chapman, after a few remarks on the specific actions of medicine, read to the class a dissertation on the Secale cornutum or Ergot, by D<sup>r</sup> Prescott-Salen M.D. read before the Mass<sup>s</sup> Med. Society. — D<sup>r</sup> Chapman has only tried it in one case, & in that, it was to arrest the hemorrhage during labour, & whether from this medicine or from accident, the hem. soon ceased. See Prescott's Diss. on Ergot.

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- Dr Phyrick prefers sound Cider, as a menstruum, to wine

÷ [Dr Wistar informs me that an emmenagogue is now much used, which he has found successful in his cases, viz. the expressed juice of the blades of wheat (when about a foot high) - a tablespoon twice a day for several weeks. - Dr Phyrick]

Lecture 30<sup>th</sup> January, 3<sup>d</sup> 1818. - 139.

We have hitherto spoken only of those emmenagogues, which are powerfully stimulant; but amenorrhoea perhaps more frequently demands only tonics. The tonic most deserving of our attention is the iron; of which there are a vast variety of preparations, but as emmenagogue the most valuable is the subigo ferri, or carbonate of iron. Dose ʒss or ʒv. t. d. But this is a disagreeable medicine, & is generally combined with some others, which render it less nauseous. R. Peruvian bark ʒijj. Rub. Lingib ʒij Rubij. ferri ʒj. made into an electuary with Syrup. - or a better form is the Chalybeate wine, made as follows; R. Rub. ferri ʒijj. - Gentian & Orange peel ʒss. - Portwine ʒijj. - the ingredients are to be bruised, & then put into the wine, & exposed to a moderate heat, either in the <sup>rays of the</sup> sun, or near the fire, for two days, being shaken occasionally; then it is to be decanted, & given in the dose of ʒij wine glassfull t. d. - This is very grateful to the stomach, & an excellent tonic in Dyspepsia. - It is a common practice to join to this some one of the fetid gums, Asafetida, Castor, galbannum, musk; but I have never used any except asafetida; As Hysteria is frequently symptomatic of amenorrhoea, I have given the asafet. but with no marked advantage; indeed I consider the fetids as very feeble medicines in amenorrhoea. Myrrh however is more powerful; & has been strongly recommended in combination with the Oxyd of zinc; 1 or ʒjss of the latter to ʒss or ʒijj of myrrh. - t. d. -

A variety of other means are used to restore the tone of the system, but they can





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scarcely be termed Emmenagogues, as Cold bath,  
of  $50^{\circ}$ . or  $60^{\circ}$  Fahr. best used as a plunge or shower  
bath; frictions to the lower extremities, nourishing  
diet, exercise, particularly if the lower limbs be much  
used, as in spinning, dancing &c.  
Shirts to the inguinal part of the thighs, are  
often our best emmenagogues.

We are now to mention those which decrease  
action. Amenorrhoea is often connected with  
a high degree of action, & not unfrequently at-  
tacks full habits, with flushed face, inflamed  
eyes &c. U.S. is in these cases the most prompt  
and efficacious mode of reducing the system  
it unlocks the vessels, and prevents vicarious  
haemorrhages from the brain, lungs, stomach &c.  
I have more than once observed after a copious  
venesection the obstruction removed, & the menses  
speedily return. But we must not neglect  
the auxiliaries, active purges; of which the best  
is Aloe, as it invades a determination to the  
hypogastric region - Aloe & Calomel, or nuxth  
in pills. &c.

*Helleboms niger* or black Hellebore (*melampodin*)  
in doses of  $\text{ʒss}$  to  $\text{ʒv}$  purges actively, but is more  
remarkable for its emmenagogue powers -  
the celebrated Mead first introduced it & pro-  
claimed its efficacy in the strongest terms  
of commendation; but Dr Cullen speaks of it  
as he usually does of Emmenagogues, & it fell  
into disuse. It is now however regaining its  
place; they are using it extensively in Europe, &  
Dr Barton & Dr Keim of this city consider it as the most  
promiseful of the Emmenagogues. - It is calculated  
for those cases, which are accompanied with a  
torpid action of the alimentary canal &c. It does  
is  $\text{ʒss}$  X, given in divided portions. - of the tincture  
(*Tinctura Melampodin*) the dose is  $\text{ʒi}$ , increased to  $\text{ʒij}$  if necessary.

[The pain in Dysmen. is somet. so excessive, that the extre-  
-ties become cold, the pulse hardly to be felt, & somet. Convulsions  
occur. In these cases, (depending mostly on spasm) Emetics  
are very useful; even if the pat<sup>t</sup> have been vomiting;  
for an active emetic will often relax the spasm & put an  
end to the pain immediately. If not, I generally prescribe  
the Elix<sup>r</sup> Proprietary  $\mathfrak{ss}$ . every two hours till it opens the  
bowels, & I have seen this perform what no other medicine  
would do. — Warm bath &c. — In a very severe case in  
which I was consulted yesterday, the Emet. & Elix<sup>r</sup> prop. were  
given with considerable alleviation, but at 4 in evening  
I was called, the pain &c having returned with equal vio-  
lence, & I prescribed an injection of  $\mathfrak{ss}$  of Perchlor<sup>ic</sup>  $\mathfrak{ss}$   
beat up in the white of an egg, & half pint of milk.  
This relieved the patient entirely in a few moments.  
Opium & Camphor are often very useful &c. (Dr. Physick)]



Menstruation is sometimes performed with much pain, and the discharge comes away slowly & deficiently; this state is called Dysmenorrhoea, and depends on an imperfect secretory power of the uterus.

The remedies to be used must depend on the state of the system; it is generally attended with morbid action, & hence v.s. and diaphoretics are to be used. Opium  $\mathfrak{ss}$   $\mathfrak{ij}$   $\mathfrak{ij}$  grs with Camphor grs  $\mathfrak{x}$  or  $\mathfrak{xij}$ . is one of our best remedies to relieve pain, & it does it to be repeated if necessary. When the pain is so severe as to call for immediate relief, an anodyne enema, of  $\mathfrak{ss}$  Laud. with mucilage, should be given, perhaps an anodyne injection into the vagina. Warm bath is never to be neglected;  $98^{\circ}$  or  $100^{\circ}$  Fahr. Warm fomentations to the hypogastrium by a bladder half filled with warm water &c. — Elix. Conium, & Hyoscyamus have been recommended & we ought to try Stramonium.

In treating Amenorrhoea you must prepare for disappointment. It sometimes depends on the state of the ovaries, and all emmenagogues must fail. But these cases are comparatively rare and a large majority of cases may be treated successfully, by attention to the state of the system.

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Lecture 31<sup>st</sup>. January, 5<sup>th</sup> 1815.

146.

Anthelmintics, that class which destroy or expel worms from any part of the alimentary canal. This is an extensive apartment, comprehending a great number of articles, which have been variously arranged, & are endued with very different properties. 1. Some act as poisons to the worms; 2. Others expel them merely by a cathartic operation; 3. Others destroy them by mechanical irritation; & a 4<sup>th</sup> Division change that condition of the stomach and alimentary canal, on which the disposition to the generation & sustenance of worms depends. — This has been made the foundation of an arrangement of this class, but as each kind of worm has its appropriate remedies, I prefer arranging them strictly according to the worm for which they are most calculated —

The worms infesting the alimentary canal are divided into the round & flat. Of the former there are three, the *Ascaris lumbricoidea*, commonly called the lumbricus, the *Ascaris vermicularis*, & the *Trichuris*. Of the flat, the *Tenia* & the *Cucurbitinae*.

The lumbricus has been considered the same as the earthworm (*lumbricus terrestris*) but is very different. the lumbricus is found in the duodenum, jejunum and ileum; rarely in the stomach and large intestines, & when there, are probably endeavouring to escape from the body, being expelled by disease or by anthelmintic medicines. they are found to 12 inches in length, and generally in great numbers.

*Ascarides* occupy the rectum, tho' sometimes they are found in the stomach thence called manworms. but pain in the stomach by no means indicates this species particularly — They resemble thread cut into pieces.

The *Trichuris* or hairworm is about 2 inches in length, with a long tail, and a proboscis, which it can protrude at pleasure, like the botch. it is very rare & not accurately described. it inhabits the ileum.

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



Of the flatworms the Taenia is strictly the only one. it is from 8 to 12 feet long, resembling a piece of tape. it consists of distinct joints, each of which is capable of becoming a separate animal - & these joints are what have been called Cercobitioni. (from cercus & bitioni)

The origin of worms is an object of curious speculation, but as it is not within my province, I shall only observe that they all belong exclusively to the human system, and when carried out of it, they die.

Tho' we are ignorant of the causes of worms, yet we know the conditions of the system, which favour their generation. Debility, particularly of the alimentary canal, attended with emaciation & generally indicate worms in children - The age which is peculiarly liable to them is after one to 3, 4, 5 years. Why so young children are more liable to them than older persons are, I cannot say: Some have attributed it to a greater quantity of mucus, forming a nidus for them &c.

It has been disputed whether worms are injurious or harmless. Some have even gone so far as to assert that they were highly useful, in the animal economy, executing the duty of scavengers, & taking up the indigested solids in the alimentary canal. But all, who are conversant with diseases of children, must without hesitation reject this opinion. There is scarcely a disease but these will either excite or imitate. Epilepsy, Mania &c. Winter before last I was called to a patient with Croup in confinement with Dr. Wistar. Emetics & the usual remedies had been given without effect; in the morning a large lumbricoides was thrown up, & every symptom vanished; Dysentery also. But the disease most commonly produced by them is the Febris verminosa, which is a slow remittent. The exacerbations are always attended with drowsiness or coma, and the remissions with vigilance or watchfulness. In this fever, the head is often much affected, stupor, delirium; the eyes are wild, the pupils dilated, Strabismus, the alae of the nose contracted, cheeks flushed &c. So many symptoms of Hydrocephalus are present, that it is scarcely confounded with it. but in worm fever, there is a very strange change of the voice & sometimes loss of it.

- the breath is peculiarly offensive in the morning before eating. —

(Dr. Rhynick says, if given in this way, the parent will be much alarmed by the loss of sight &c, which it will produce in 1 case out of 5. To avoid this, Dr. Rh. directs for a child under 2 years  $\frac{3}{4}$ ss, or for one 2 or 3,  $\frac{1}{2}$ ss of the root to be boiled in  $\frac{1}{2}$ l of water & simmered to  $\frac{1}{4}$ ss. then add sugar & milk, & the whole  $\frac{1}{4}$ ss to be taken at bed time.

Its effects on the nervous system are not noticed & pass off, & in the morning the child is as well as before. This is to be repeated 3 successive nights, & then the worms are brought away in great numbers by a dose of Calomel.  
Dr. Rhynick



*Lumbricoides*. - Worms may generally be suspected, where great emaciation exists, & particularly weakness of the bowels, with a discharge of slime. they however not unfrequently exist in robust persons, with no detriment to health, or any inconvenience except pain. - the symptoms generally attending this kind of worms are pains in the belly, intestinal irritation, a variable appetite, sometimes voracious, sometimes depraved, craving dirt, chalk &c. tumefaction of the belly at night, - breath very fetid, alternate diarrhoea & constipation, very pallid countenance, & swelling of lips. - the little patient lies at night on its belly, its rest is disturbed, starting &c. - a picking of the nose, occasional headache, a dry cough, slow fever & sometimes convulsions. No one of these symptoms is an evidence of worms, but the existence of several of them leaves little doubt of their presence; & the most efficacious remedy is undoubtedly the Calomel, in as large doses as possible, at night, and in the morning a dose of Castor oil or Rhubarb to purge it off. And this plan, if necessary, may be repeated every other night. Next to Cal. is Spigelia Marylandica or Carolina pink, which is a most powerful anthelmintic, particularly for *Lumbricoides*. it is indigenous, & every part possesses power, but the root is best & the only part used. - It is exhibited either in powder or infusion - of the powder  $\mathfrak{v}$ ss for a child 2 years old, &  $\mathfrak{z}$ ij for an adult. - but it is more generally given in infusion.  $\mathfrak{z}$ ij of the bruised root in a pint of boiling water, & simmer down till  $\frac{1}{2}$  escapes. of this  $\mathfrak{z}$ ss for a child 2 years old, &  $\mathfrak{z}$ ij for an adult. - but it must be watched, as it may produce, even in ordinary doses, a train of nervous symptoms, as vertigo, false vision &c. - very alarming to the parents. - It is evidently a



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146  
narcotic, & it is in my opinion by this poisonous pro-  
perty that it proves antihelm<sup>c</sup>; some assert that  
it is only by its purgative power; but I doubt the cor-  
rectness of this opinion, for I have seen it prove an-  
tihinetic without purging in the slightest  
degree.

Bilious worms, *Spigelia* is said to be used in some  
Hot Remitting fevers with advantage.

Its poisonous effects are said to be corrected by con-  
taining it with *Serpentaria* &c.

*Helletorus foetidus*; a native of this country as well  
as of Europe. it has a stalk about 3 feet high, & grows  
in swamps or meadows; its smell is very offensive  
& taste acrid. it operates powerfully as emetic &  
cathartic. of the dried & pulverised leaves, the dose for  
an adult is from ʒ. to ʒss every night for several  
nights in succession - it is an active anth<sup>c</sup> & tho'  
I have never used it, I place much confidence in  
it from the statements of respectable authorities; but  
it must be used with caution, for it is a poison-  
ous plant & often operates dangerously, & even has  
proved fatal - It is said also to be useful in Hypo-  
chondriasis &c. -

*Melia Azedarach*, pride of China, poisonberry tree,  
Tallow tree &c. - a small but beautiful tree, which  
flourishes in the Southern States; it is said to be ori-  
ginally from Japan, but is now completely natura-  
lized in this country. the root, or rather the bark  
of the root is the part used, & is exhibited in two forms;  
the most common mode is a saturated decoction,  
of which a teacupfull is given for several evenings  
in succession. It is also used in powder, but the  
other mode is preferable. I have used it but  
little, but from the few cases in which I have  
prescribed it, I am inclined to think very highly  
of it. It is a very popular remedy in the South-  
ern states, & is even preferred to the *Spigelia* Maryl<sup>c</sup>.

*[The text on this page is extremely faint and illegible, appearing as light grey smudges against the aged paper background. It seems to consist of several paragraphs of handwritten text.]*



whether it be equally applicable to the other species of worms as to the Lumbic; is not known; it is said to be useful in cases of Bania. — This also is a narcotic, & in too large doses produces a train of nervous symptoms, similar to those from Spizelia.

*Chenopodium anthelminticum*, Jerusalem Oak, a native vegetable, which grows in every variety of climate. A tablespoon full of the expressed juice is given morning & night on an empty stomach — but more generally a tablespoon full of the powdered seeds (called wormseeds) is given enveloped in honey or mucilage. — This is perhaps the best remedy for Lumbicoids, with the exception of Mercury. The oil of wormseed is a very favourite remedy in this city, & is given indiscriminately in every kind of worms. 5 or 6 gtt. for a Child one year old, three times a day, & after some days a purge of Calomel. If the worms do not appear, recur to the oil as before; but the dose 5 or 6 gtt. is small even for a child of one year. — I have been so much disappointed with the oil, that I have lost my faith in it. — It has a very offensive odour & taste, which are so tenacious, that they remain several hours. —

Ascarides, or the small worms occupying the rectum & distinguished by an itching about the anus, sometimes amounting to an intolerable irritation, generally aggravated in bed. — besides this all the symptoms denoting other worms, are present. — They frequently creep out of the rectum and are found on the bedclothes, & also in the stools. — I know only one general remedy, & that is purging. Calomel or Cal & Aloes; but the best way to administer them is by injection — Aloes  $\mathfrak{z}\text{i}$  or  $\mathfrak{z}\text{ij}$  in a pint of new milk injected up the Rectum & repeated twice a day. A weak infusion of tobacco; a solution of asafetida — Lime water — Olive oil — <sup>camphor tea</sup> Solution of hepar sulphuris, expressed juice of

*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



141.  
Tandy, or Rue - Solution of common salt, a tatter-  
full of salt to half pint of water. this last is very effi-  
cious, & Dr. Keil says he hardly ever knew it fail.  
The first & last are undoubtedly the most certain. -  
After either of these injections, a cathartic is to be  
given, & the enfeebled worms will be brought away.  
Of all worms, the Tania is the most difficult to  
destroy. - There is no decisive distinction between  
the symptoms of this & of other worms; in Tania there  
is a steady gnawing pain in the stomach, and  
all the gastric affections exist in an eminent degree.  
The remedies generally recommended for Tania  
are often inefficient; of them the best perhaps are  
the mercurials. - The Calomel, Turpet mineral,  
& Corrosive Sublimat, the last is decidedly superior  
to the others, & is to be given in solution  $\frac{1}{4}$  or  $\frac{1}{8}$  gr. dose.  
next to mercurials, comes the Polypodium filix or  
male fern; dose  $\text{ʒi}$  to  $\text{ʒij}$  with Symp. a strong  
purgative must then be given. - This has been  
so much praised, even as early as Galen, that no doubt  
it possesses anthelmintic powers, but I have found  
them very weak. Dr. Cullen thinks it very doubtful  
whether it has any such property, but it is much used  
in Germany, & instances of its success have been  
related in New York. It formed the basis of the  
celebrated tapeworm powder of Madame .....  
Polypodium Virginianum of our country resem-  
bles it in properties, & may be equally powerful.  
Dolichos pruriens, a native of the West Indies.  
The hairs or spicula are used, & equally for every  
species of worm. Its operation is said to be purely  
mechanical, the spicula pricking & irritating  
the worms; we should suppose they would irritate  
the villous coat of the intestines but experience  
shows they do not. - An argument in favour of  
their mechanical operation, is that in infusion  
they are inert. - Dose tatterfull enveloped in  
Symp. Dr. Thomas in his "practice of Physick"  
speaks in high terms of this article. -



- from the Philosophical Magazine Vol. XXXVI.

Senia has been also treated by blue vitriol, Tin, arsenic, 120.  
and recently the Pl. Terbinth. This last is the only one,  
the efficacy of which is supported by authentic cases.  
Several cases are related in the Ed. Repository, Vol 1<sup>st</sup>, in the  
1<sup>st</sup> of which, by D. Lettsom, ʒij of the oil were taken at a dose.  
It is best to commence by half table spoon - & increase to  
ʒij. - It produces no more sensible effect on the  
fauces & throat, than so much brandy; but it  
purges very actively.

The next object, after expelling worms, is to pre-  
vent their reproduction. The origin of all kinds  
is weakness of the digestive organs, & hence the in-  
dication is to strengthen them. Rub. ferri,  
lime water, bitters & other tonics; and a  
variety of other remedies, as recommended for  
Dyspepsia.

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Section 37. The purpose of this act is to provide for the better  
administration of the public lands of the United States, and to  
prevent the waste and destruction of the same. The act shall be  
known as the "Public Lands Act of 1906".

Section 38. The Secretary of the Interior shall have the honor  
to receive and transmit to the President all reports and documents  
relating to the public lands of the United States, and to the  
management of the same. The Secretary shall also have the honor  
to receive and transmit to the President all reports and documents  
relating to the management of the public lands of the United States,  
and to the management of the same.

Section 39. The Secretary of the Interior shall have the honor  
to receive and transmit to the President all reports and documents  
relating to the management of the public lands of the United States,  
and to the management of the same.

Section 40. The Secretary of the Interior shall have the honor  
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Section 41. The Secretary of the Interior shall have the honor  
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Section 50. The Secretary of the Interior shall have the honor  
to receive and transmit to the President all reports and documents  
relating to the management of the public lands of the United States,  
and to the management of the same.



Lecture 32. January 17<sup>th</sup> 1815. 129.

"We now proceed to those medicines, which increase action, and then we divide into diffusible stimuli or incitants, & permanent stimuli or tonics; the former including narcotics and antispasmodics; and the latter the astringents and tonics. — The articles of this class are so numerous, that it will be impossible to enter minutely into the history of each individual; but I regret this less, as they are very analogous in their effects, differing only in strength, & some slight variety of action —

*Opium*. This perhaps is, next to mercury, the most extensively useful article of the M.M. Scarce one solitary morbid affection exists in which opium is not given either alone or in combination. —

It is a product of the *Papaver somniferum*, which flourishes very well in this country, but is a native of the South of Asia. — It was called *thibaium* from its being at one time brought exclusively from Thibet. — Two kinds are brought to us, the Turkey opium from the Levant, & India opium from Bengal. the latter is more dark & fluid than that from Turkey, & possesses only half the power. —

It is not satisfactorily known how the opium is prepared in the Eastern countries. It is said, that incisions are made into the plant, from which oozes a milky fluid, which being collected, & inspissated by exposure to the sun for 2 or 3 days, is wrapped up in the leaves of the poppy & exported. —

The seeds possess but little of the narcotic power, & are used only in emulsion, & being very oily, are quite mild. —

- See O. J. R. Coxe's paper on this subject in one of  
the early vol. of the Trans. of the Amer. Philos. Society.

++ for the modes of obtaining the narcotic principle?  
See Thompson's "Elements of Chemistry" page 250. -



Opium, as we receive it, is of a brown colour, has a strong fetid odour, and disagreeable taste. By filtration it is purified, & becomes of a shining black, like the Succus Glycyrrhizæ. -

- It is obtained also from lettuce, and is nearly as powerful, as that from the poppy.

Its constituents are Gum & Resin in nearly equal proportions, an oil, an earthy or Saline matter, and a substance not soluble in any of the usual menstrua. It has been asserted by a french Chemist of eminence, that a peculiar substance exists in it, giving it the narcotic power. It is obtained in prisons, white, inodorous & insipid; insoluble in cold water & very slightly soluble in hot; but is soluble in alcohol, acids &c. (for the process, see last edition of Murray's Materia Medica.)

Alcohol dissolves the resin of opium forming its most powerful preparation, Laudanum. The gum is dissolved by water, but the aqueous solution is much less powerful. Wine also takes up the properties of opium in a very considerable degree. - Vinegar also, but this has no advantages over the other menstrua. -

As respects the action of opium on the system, much difference of opinion exists, & the point has been warmly disputed, particularly between the disciples of Cullen and Brown. - We cannot here enter into the consideration of this question, but will merely point out its most prominent effects on the system. -

In a moderate dose, it excites the action of both body & mind, increases the force & frequency of the pulse, produces hilarity &c. precisely as wine does, & among the Eastern nations, whose religion forbids the use of vinous liquors, opium is used in their place, to inspire courage, increase fortitude, to soothe sorrow &c. - After these first effects have continued some time, they are succeeded by symptoms of diminished action, for the most part terminating in Sleep. -





By a large dose, debility and a decrease of action<sup>151.</sup>  
is produced without any previous excitement,  
or at least the excitement is so transient as scarcely  
to be perceptible. — If an excessive dose be taken,  
the system immediately sinks under it.

These effects of opium however are very much  
modified by the state of the system at the time  
of its exhibition.

Thus Opium may be given with very oppo-  
-site views; as a stimulant, it is to be given in  
small doses, frequently repeated, & gradually in-  
-creased. But to relieve pain & produce sleep,  
full doses must be exhibited, and at distant  
intervals. — Opium may hence be employed  
in many diseases, but it requires caution  
and discrimination. — The indications, for  
which it is exhibited, are to excite the action  
of the system, to mitigate pain, induce sleep,  
and allay morbid irritation. We now pro-  
-ceed to the application of opium to disease.

Continued Fever. Every form of cont? Fever,  
whether Synocha, Synochus or Typhus commences  
with inflammation, or at least with an increase  
of action; but when this has passed away, great  
prostration and debility follow (partic? in Typhus)  
and stimuli are required; but in these low  
stages of fever, wine, volatks are preferred to  
opiates as stimuli; certain symptoms however  
arise, which require the use of opium, & of these the  
principal is Delirium. This arises from very  
opposite states; in the 1<sup>st</sup> stages it is caused by an  
increased action & opium will aggravate it. but  
in the low delirium, proceeding from want of  
action, & attended with extreme anxiety & in-  
-quietude, stimulants, & particularly opium,  
are our sole dependance. — When the Fever is  
accompanied with a dangerous diarrhoea,  
as often happens in the low stages, opium is  
a very valuable remedy, alone or with Chalk.





The crotacean mixture is made thus; R. Crota preparatae ℥ij. Laudan. gr. xl. . . Is - Rg. Cinnamon: ℥ij  
M. ℥ss. q. dimid. h. vel q. h. pro re nata. — If the diarrhoea be very urgent, Tinct. Kino ℥i or ℥ij may be added to this mixture.

In the last stages of fever, nervous tremors & subultus tendinum sometimes occur, & denote great danger, yet they are not fatal symptoms but require the plentiful use of Stimuli; Opium is in these cases to be given in large doses, as the susceptibility of the system is much impaired, and should be frequently repeated, in order to keep up the impression. —

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LECTURE 33<sup>d</sup> January 19<sup>th</sup> 1815.

The use of opium in intermittent fever is by no means a novel practice, but was known to Galen & the Arabian physicians, who have all given their testimony in its favour; but its power has not till lately been fully investigated. - Given an hour before the expected accession of the paroxysm, it not infrequently prevents it; But Dr Lind thinks it still better, when administered about half an hour after the commencement of the hot stage, & asserts that it renders the remaining part of the paroxysm lighter & shorter, the intermission more perfect, & that it prepares the system for bark, & is never followed by the chronic diseases, which so often follow intermittents treated by bark. I have never used it in this manner, & should do it with reluctance; indeed all who have tried it in this city agree that it increases headache &c. Dr Lind however practiced in hot climates, where there is an disposition to sweat, & probably it acts as he says. I have met with one other author, who practiced within the tropics, who very strenuously advocates Dr Lind's practice. - Were I to use opium in the hot stage, it would be in the form of Dover's powder.

I am next to enquire, how far opium is proper in the Phlegmasiae? It is laid down as a rule, that it never should be used, while it is required; this is generally true, and all allow, it would be improper in active inflammation, but it is often highly useful in what has been termed passive inflam<sup>n</sup>. -

Dr P<sup>r</sup>evenia no one now thinks of administering opium, until the inflam<sup>n</sup> has been subdued by U.S. &c. - Thus Dr Cullen very judiciously says, "In the beginning of the disease, before bleeding and blistering have produced



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"Some remission of the pain, and of the difficulty  
of breathing, opials have a very bad effect, by increasing  
the inflamed symptoms; but in a more advanced  
state, when the difficulty of breathing is abated,  
and the urgent symptom is a cough proving  
the chief cause of the continuance of the pain  
and of the want of sleep, opials may be employed  
with great advantage" (1<sup>st</sup> Lines. ast. Pneumonia)

These principles prove equally correct in all  
other pulmonary affections. As opium alone  
tends to check the expectoration, it is usually  
combined with some of the expectorants, Specac,  
Squill, wine of antimony, & an ammoniac &c.

R. Ext. glycyrrhis... ℥ij.	Or. R. Oxy mel Scill. ℥i
Vin. Antimon... ℥i.	Ext. Paragor... ℥i.
Eliz. paragon... ℥ij.	Spt. Nit. dulc. &c. ℥ss
Aq. Fluor... ℥ij.	Antimon. wine. ℥ij
M. ℥ss. q. s. vel ℥. h.	Water... ℥ij.

J. Arab. may be substituted  
for the liquorice. —

℥n. — Specac may be  
substituted for the O. Scill, &  
Laudanum for Eliz. parag. —

In asthma, & coughs attended with but little gen-  
eral excitement the lac ammoniac with Laud.  
is an excellent remedy, & may be prepared thus.  
Rub down q ammoniac ℥ij in Water ℥viij. & add  
Oxy mel. Scill. ... and Laudanum q. s. —

I have used the following preparation with great  
advantage in cases of extreme tightness, and dif-  
ficulty of expiration incident to the advanced  
stage of Phthisis, and the Catarrhal affections of  
old people; R. Nitric Acid ℥ij. Water ℥viij. —  
pour this upon J. Ammoniac ℥ij, & triturate it gra-  
dually, till dissolved, & then add Laudanum q. s. —  
of this ℥ss. q. h. vel q. s. h. — vel pro re nata —

Of the use of opium in Rheumatism little  
need be said; In the acute R. it is wholly inad-  
missible, & the cure is effected only by depletion.  
But if after this, pain continues with a little  
fever, a perspiration is to be excited, & kept up  
for 12 or 24 hours; and to meet this indication,  
nothing has answered so well in my hands  
as the Dover's powder — the rules for its adminis-  
tration are laid down in Cullen's Anat. Med. —

*[The page contains approximately 30 lines of extremely faint, illegible handwriting. The text is mirrored across the page, suggesting bleed-through from the reverse side. A prominent dark stain is visible near the top center.]*



Opium given alone in acute Rh. never fails to aggravate the pain, and even in continuation with Ipecac it does so, until perspiration is produced. There is a form however of acute Rh. in which opium may be used early; this is attended with extreme mobility and irritability of the system, & occurs particularly in women; and here opium alone or with bark will be found highly useful. In the Rheum. of secondary Syphilis, opium may be combined with the mercury with advantage.

As respects the utility of opium in Gout, Physicians are by no means agreed. In the acute and regular gout, opium must undoubtedly aggravate the disease. But Brown & his disciples contend, that Gout is always a disease of debility, & to be treated by Stimuli, & above all by Opium. This however is mere speculation.

In the atonic, retrocedent or what is called gout in the Stomach, there is no doubt of the utility of opium, & it ought never to be neglected; but it must be given in very large doses, for so great is the loss of susceptibility that Zi laudatum has been taken in a very short time with little impression. It is best to combine it with vol. alk., Ether, ginger tea, spiced wine, hot toddy &c. -

In hæmorrhagis opium has been used too indiscriminately; In active hæm. it is certainly improper, but after the action has been reduced, opium will be of great service in allaying irritation, and quelling the mobility of the system. In hæmoptysis & epistaxis opium with ipecac has been much commended. - In floodings after parturition, large doses are highly praised by Dr Hamilton, and in a paper published in last Vol. Lond. Philos. Trans. (See Note in my edition of Burns' -)

In all the diseases of the Clap, Neuroses, opium has always been a favourite remedy; but in my opinion, its value has been overrated. -

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In Tetanus I have seen it tried without the least success, & in the West Indies, where the disease is common, it is now very little depended on - The few cases which have been cured by it were treated by prodigious doses; such was one in which gr 1500 were taken in 17 days, and another in which 3xx of Laud. were taken in 24 hours - These both ultimately recovered, & of their authenticity there is not the least reason to doubt. They show the degree of irritability to which the system is reduced. -

Of the utility of opium in Hydrophobia, I have but little to say - I think that when genuine it is incurable by any remedies hitherto known - but when symptomatic of certain diseases, it may be relieved - All that can be said of opium is, that it mitigates the symptoms.

In Chorea & Diti its use is very dubious. Sydenham speaks highly of it, but I doubt whether it is ever permanently useful, if not generally injurious.

In ordinary Hysteria, it has been, I think, too much praised; it can never effect a cure, but may palliate some of the symptoms. The habitual use of opium increases the mobility of the system, & hence women who are in the habit of taking it in considerable quantities, are usually hysterical.

In Epilepsy I have not the least confidence in it; this, as well as most other nervous diseases, is either dependent on, or allied with gastric affection, and is to be treated by evacuating the vice by emetics and cathartics. Sometimes U.S. is necessary, & topical bleeding, when inflamed action, or determination to the head exists. It is the practice of Dr. ... to give an emetic, as soon as the premonitory symptoms of an approaching fit appear, and he is said to prevent the formation of it, & in some cases to have cured the disease -



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In mania opium has been much used & with but little discrimination. So long as any general excitement exists, opium is not advisable, but V.S. purging, and Cold to the head. but in the weaker forms of mania, or after the system has been reduced by V.S. &c. opials are very serviceable. — But it is more particularly useful in puerperal mania, & mania a potu. — Not more decided power can be obtained from any medicine, than from opium in the latter form, especially if combined with Camphor. They must be given in very large doses — grs ij opii with Camphor grs. x. q. h. vel q. s. h. untill tranquillity is restored to the system. It is sometimes necessary to push the opium as far as 100 or 120 grs a day. By this practice not a single patient has been lost in the Asylum, tho' by the treatment formerly used there, they were seldom saved. (by V.S. &c.) —

(Dec. 20<sup>th</sup> Inquesting) medium dose of opium grj.

Laudanum ꝑ XXV. = Opium grj.

Elixir pargoric is made in different ways; the Tinct. Camphorae Compos. of London Pharmacopoeia contains grs ij opium to ℥i of alcohol. Whereas the Tinct. opii ammoniacae of Edinburgh contains grj. to ℥i. — In this country the former is generally used; but ℥ss is by no means a small dose, for the other articles give the Tinct. additional force, & ℥j of Elix par. is much more than equal to grss opium.

For a child three days old, gt j Laudanum is to be mixed in ℥i water, & half of it taken; & after sometime the remainder if necessary. but even the drop sometimes produces violent effects.

At no time within the month ought more than one drop to be given at a dose. —

Elix parg. is to be given in proportionate doses — perhaps ʒj. to child 3 or 4 days old. —

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Lecture, 34<sup>th</sup> January 20<sup>th</sup> 1813. - 158

As to the external application of opium I have but a few words to say; experiments have been made here & elsewhere, which go to prove the inefficacy of this practice. Dr Henry Jackson has shown that a large quantity of opium may be worn without any effect; this has been repeated by Dr Roussier, & Smith &c. -

Opium is often used in enemata; for this purpose it is to be extingled in mucilage of gacabic, Flaxseed tea, or starch. as the enema is intended to remain some time, the smaller the quantity of mucilage, the better - ℥ss of some one of the above with ℥i Laudanum. As a general rule, twice as much is to be administered in enema, as would be required if taken by the mouth. Thus if it ℥i Laud. appear requisite if taken into the stomach, ℥ii are to be given in the enema.

No medicine loses its power by habit more than opium; I have known a person take ℥vi Laud. a day - and a well authenticated case occurred in this city under Dr Monro & Dr Laroche, in which the patient took three pints of Laud. a day for some weeks; it was a case of Cancerous utery, & the woman drank the Laud. like beer by tumblersfulls -

Volatile alkali or more properly Carbonate of ammonia is next in importance to Opium as a diffusible stimulus.

It is used in some form in almost every febrile affection, but is peculiarly adapted to the low or nervous fever. - I remarked some days ago that in the early stage even of Typhus Fever there was some increased action, & here the vol. alk is inadmissible; the treatment must consist in moderate purging, & diaphoretics - But afterwards, when the more truly Typhus state comes on,

- Dose of *Aq. ammoniac* a teaspfll. of *Spth. mindereri*, 3/4.



vol. alk. alone or with wine is our most decidedly  
 useful remedy. — the general dose is about grs. v. q. s. h.  
 but I have given as much as grs. x. q. h. & even grs. xii. q.  
 h. — As its effects are very evanescent, perhaps  
 more so than those of any other medicines except  
 ethereal preparations, the doses must be small  
 & frequently repeated. It may be given in pills,  
 or preferable in pulv. — R. Carbon. ammon. ℥i.  
 - g. Arabic ℥i, Sacch. alb. ℥i. Aq. font. ℥v. — m. ℥ss. q. s. h.

The vol. alk. has been used in intermittents,  
 and is said, when given before the period of accu-  
 sion, either to prevent the paroxysm, or to mi-  
 tigate its violence. I have never imitated  
 this practice, but I use the Sp. Mindereri  
 very much in the hot stage as a powerful  
 Diaphoretic. —

In Remittents the vol. alk. is used, whenever  
 there is any tendency to Typhus.

It is also used in some of the Phlegmasia.  
 Even in acute Rheumatism by some of the  
 British physicians it is given before dissec-  
 tion; but this would not do in this country.  
 I have used it in Chronic Rh. but from  
 my own experience should greatly prefer  
 the vol. T. Quaiac, of which it forms an ingredient.

Extraordinary as it may appear, the vol. alk.  
 has been much extolled in Pneumonia; I  
 am informed that as late as 30 years ago, it was  
 usual in this city to treat pleurisies by one ℥ss.  
 & then the vol. alk. & Polyg. Senega, as expectorants.  
 Either this disease has changed very much since  
 that time, or their treatment must have been  
 injurious. — But a species of Pneumonia  
 exists, incident to the inhabitants of low marshy  
 grounds, which will not bear more than one  
 bleeding, & often requires the vol. alk. — Also in  
 the Ph. notha of old people, we are compelled  
 to use stimulants, and none are so good  
 as the Carb. ammon. with opium.



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Of the Symplicus Pneumonia, as it has lately appeared in this country, I have already spoken, & shall again have occasion to treat.

In the remnants of a Pneumonia or the prelude to Phthisis, small doses of the Carbonate of ammonia are very useful; & also as a palliative in the declining stage of Consumption.

Also in Asthma, pertussis, and the Cough after ill-managed measles; I have no experience in the two first, & very little in the last, tho' it is much praised here -

The vol. alk. is also adapted to some disorder of the alimentary Canal. - It is said to be useful in Pyrosis, but I have usually treated this by restriction to a diet of new milk.

In Dyspepsia, particularly that of drunkards. In the Cardialgia of pregnant women; for which I use the following Rx. Aq. Ammon. Calc. magnesia aa ℥i. - Aq. Cinnam. ℥ij. Aq. font. ℥vj. M. ℥ss. whenever the uneasiness appears; & by taking a dose after each meal, its recurrence will be prevented, the acid being immediately neutralised.

In the Sick headache of sedentary persons, the vol. alk. will often give immediate relief, & by a continued use of it, a complete cure will sometimes be effected.

In irregular gout, arthritic colic, Cardialgia &c. the symptoms are more readily relieved by it than by any other medicine.

In Dysentery it relieves griping & tenesmus, I cannot say this from my own experience, but should presume it might, in the last stages.

In Chronic diarrhoea, with opium - it is very useful.

It has been recommended in almost every one of the diseases of the Clap Neuroses; but I do not know it to be useful in any, except as a palliative in Gleet.

In France it has been lately extolled in apoplexy, but I can place no confidence in this; if ever it can be so, it must be in the gastric apoplexy, from Debauch, Drunkenness &c.

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There is however a form of palsy, in which our medicine is highly beneficial. - it is that, which is the offspring of Rheumatism, in which the muscles, by long continued pain, have lost the power of Contraction. It is scarcely to be distinguished from genuine palsy, except by the pains occasioned by changes of the weather. This disease is only to be treated by vol. alk. &c. -

The vol. alk. is said to be useful in Dropsies as a diaphoretic.

In mania a potu it is by some preferred to opium & Camphor; but I doubt the justice of the preference -

In Cancer it has been used internally and externally; Cures have been reported, but as subsequent experience has not confirmed them, I must doubt its efficacy.

In bites of venomous reptiles - on this subject there is much difference among physicians. It has been extolled both in the East & West Indies; & large doses are recommended internally, while the part is bathed in a solution of caustic alkali. - I can say nothing of it from my own experience; but have used it often for allaying the pain of the stings of wasps &c, bathing the part with the aq. ammon.

There are the principal diseases to which the vol. alk. is applicable; tho' it may often be indicated by certain circumstances in other diseases, which are to be determined by the judgment of the Physician. -

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— (The Camphor is obtained from *H. L. Camphora* by distilling the wood with water in large iron pots, in which there are earthen heads filled with straw; the camphor sublimes & concretes upon the straw in the form of a grey powder. It is afterwards refined in Holland by a second distillation.)

There are several species of Camphor, which differ very considerably from each other; the most remarkable are the Common Camphor, obtained from *H. Laureus Camphora*, *H. Laureus Sumatrensis*, & *L. Cinnamomi* — 2<sup>o</sup>. the Camphor of volatile oils, obtained from oils of *thymus majorana*, *carduum*, *amomum*, *Zingiber*, *laury capia* &c. probably from all labiated plants — and 3<sup>o</sup>. the Camphor obtained by treating oil of turpentine by muriatic acid. — (Thompson's El. of Chemistry. Page 257-8.)



Camphor is not a gum or resin as is generally supposed, but a peculiar principle in vegetable composition. It is principally procured from the *Laurus Camphora*, & brought from Japan; but may also be obtained from Rosemary, mint, sage, Sassafras & almost all of the aromatic herbs. In the *L. camphora* it exists in distinct grains, & may be scraped off; it is purified by sublimation. It is a white semitransparent brittle substance, only to the touch, with a peculiar aromatic odour, & a strong hot acrid taste. It is insoluble in water (tho' it communicates to it its odour) but is readily dissolved in alcohol, ether, oils, acids and milk.

Until recently it was considered as a sedative, but it is extraordinary how this opinion could be entertained, for no medicine evinces more evidently stimulating effects than Camphor.

In a small dose it produces excitement, and if pushed very far, convulsions, delirium & death; in these respects, resembling the narcotics.

It was at one time very much used, but is now much less so, & is too much neglected in the practice of this city.

Camphor is useful in every modification of febrile disease, but particularly in the low states, in which it is by some preferred to the Vol. alk. - Both are no doubt admirably adapted to meet the indications in such cases, & I generally use them alternately, in order to avoid their losing their power by the system becoming habituated to either.

In the Typhus fever, which is now desolating many parts of our Country, I have used Camphor in combination with opium & Specac. R. Opium Specac.  $\text{ae}$  gr.  $\text{vj}$ . Camphor gr.  $\text{xxx}$ . n.  $\text{ss}$ . p.  $\text{vj}$ . - of which one is taken every 2 hours or oftener; this keeps



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a constant moisture on the surface, quickens sensory  
irritation, and diminishes delirium - I have even  
found this combination preferable to the vol. alk.

In what were once termed putrid diseases, Cam-  
phor was much celebrated, as an antiseptic. thus  
in Gangrene it is recommended by the German  
physicians to promote separation of the slough, &  
is used internally, & externally, by sprinkling the  
powder on the part, or bathing it with the tinct. -  
But it is less used for this purpose, since the  
discovery of the efficacy of blisters in arresting  
the progress of gangrene. however it is often nec-  
essary to support the strength, & this is best done  
by combination of bark & Camphor. The same  
combination is also excellent in obstinate irritations.

Camphor is also strenuously recommended both  
internally & externally in indolent ulcers; I have  
never used it, but the practice seems plausible.

In Fevers of the eruptive kind, it has long been  
celebrated, to promote eruption, & to bring it  
back, if it has receded. In the confluent supple  
it is used to promote the pitting of the pustules,  
and to change the type of the fever. Rosenstein  
asserts, that if a part be smeared with Camphor  
late liniment, the eruption will not appear  
there, & hence he recommends it to guard the  
eyes from the eruption of supples by this means, &  
the throat by gargles of Camphor. - These obser-  
vations have not been confirmed, but he is so  
good an authority, that we may credit them. -

By Hoffman and his contemporaries, who supposed  
Camphor a sedative, it was used in all inflan-  
matory diseases; but I suppose the practice was  
as injurious, as the theory was erroneous.  
However after action has been reduced, Camphor  
may be used in combination with Spessac &  
opium, or with nitre; these are eminently  
useful in Pneumonia & Rheumatism, after  
proper depletion. -

Much has been said in favour of Camphor

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104  
in Purpuræ fever, and it has been used in every  
stage, and certainly not without injury. Much  
difference of opinion exists with regard to the na-  
ture of this disease. Some consider it as a pure  
inflammation and deplete accordingly, while  
others incertain it to be a Typhus, & treat it by  
stimuli. The opinions are equally various with  
regard to its seat. My own belief, which is sup-  
ported by dissection, is, that the origin of the disease  
is an irritation of the uterus, which spreads more  
or less to the cavity of the abdomen. So long as  
the peritoneum is not attacked, the disease is purely  
inflammatory, but as soon as the disease spreads  
to this membrane, a new set of symptoms ap-  
pear, tension of the abdomen, & great sensibility  
to the touch, pulse quick & small, thro' tense  
and corded; anxiety, nausea, towards the  
decline of the disease, violent vomiting of a  
dark thin matter resembling coffee grounds,  
tremulous pulse, low delirium, and a peculiar  
haggard aspect. - On dissection the peritoneum  
exhibits the blush of Erysipelatous inflamma-  
tion. Peritoneal inflammation is always  
extremely difficult of cure: V.S. is of no service,  
except perhaps at the very commencement;  
Emetics in the beginning, & after them, blisters,  
Camphor &c. - But in purp. f. when the  
inflam<sup>n</sup> is confined to the uterus &c, & does not  
attack the peritoneum, the treatment must  
be purely antiphlogistic. -

In all spasmodic diseases Camphor has been  
much used. In Epilepsy, combined with the  
Cuprum ammoniacum, the Flores Zinci, or the  
Sulphate of Zinc. - Many cases of Chorea  
have been recorded, cured by Camphor, but its  
reputation in this dis. is now not considerable.  
In Tetanus, half a century ago, it was much  
used, & lately has been again recommended on  
the Continent of Europe. - In Hydrophobia it is





quite inefficacious, & tho' it has been much praised in  
spasmodic Asthma, I suspect it is not worthy of much  
attention. Thus, tho' it has been celebrated in all the  
nervous disease, from my own experience I should  
say it was of very little value in this class.

There is however one affection, depending somewhat  
on spasm, in which Camphor is highly useful,  
viz. in difficult menstruation, sometimes using  
also the warm bath & v.s. —

In strangury it is undoubtedly useful, but large  
doses produce a most distressing Strangury.

In gonorrhoea with Chordee & other symptoms of  
irritation, I have found much advantage from  
an injection made thus: R. Spiritus Camphorae, viij.  
Water ℥ij or iij. m. — The same, diluted, forms an  
excellent Collyrium in ophthalmia with a mor-  
bid sensibility of the eye. —

In mania, it has been too indiscriminately  
used. It ought of course to be avoided in the infla-  
matory forms, until action has been reduced by  
v.s. &c. Then opium & Camphor will reduce irrita-  
tion, & procure sleep. But sometimes mania  
is purely an affection of the mind, the system not  
sympathising at all; as that from grief, or from  
religious melancholy. here Camphor & opium  
with blisters, & the alternate use of the warm &  
cold bath form the best treatment. The patient  
is to be taken from the warm bath, & plunged  
immediately into the cold, in order to give a  
sufficient shock. —

In nymphomania, Camphor has been said  
to be useful, & I doubt it not; for this disease  
depends on irritation in the uterus, & this  
medicine has a peculiar relation to that vis-  
cus. The disease however generally commences  
with plethora, & of course depletion is the 1<sup>st</sup>  
object. — Nymphomania is often accompanied  
with amenorrhoea, & disappears with the return  
of the menstrual discharge.





In mania a potent Stimulants are our only resource, and of all, the best I have used, are Opium & Camphor. I use them in large doses until the patient becomes composed, & then he is to be supported by nourishing diet, & cordial drinks. We are speaking here of mania from habitual drunkenness, when the Constitution is broken down; but in stronger habits, the plan is to be somewhat modified. —

Camphor is used externally for bruises &c. as a liniment, dissolved in alcohol, alone, or with oils & Laudanum. — It is also an ingredient of one of the Mercutial unguents. —

Camphor is given internally in various forms — in Substance, but its bulk is objectionable, and it is more apt to nauseate than in other forms. — It may be dissolved in water by adding a few drops of alcohol. —

R. Camphor ℥i. . g. myrrh ℥ss. — Sacch. alb. ℥ij  
Water ℥vj. . n. . ℥ss. q. s. R. —

but the solution in milk has of late superseded all other forms. — (In Seltzer water. 1817)

Dose in Substance is from gr v. to gr x. often necessary to give ℥ij or ℥ij in 24 hours. —

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Lecture 36<sup>th</sup> January 24<sup>th</sup> 1815.

167.

*Hyoscyamus niger*, or black henbane is not a native, but grows abundantly in this country. Every part of the plant is active, the root even more so than the leaves, which last however are the only part used. — The inspissated juice of the leaves is given in doses of gr. ij or increased to grs. xxl. a day — the dose of the powdered leaves is the same. — Its effects on the system are very similar to those of opium; like it, it excites the action of the whole system, and in overdose, produces delirium & convulsions. Being so analogous to opium in its effects, it has been proposed as a substitute for it, & it is alleged that it possesses the anodyne power without inducing Constipation. I have used it, but have never observed any remarkable soporific effect, otherwise than by quieting irritation. — It has been much celebrated in the whole class of Nervous Disorders, in mania, Epilepsy &c. — Also in scrophulous, Cancerous & Schirrous tumours, used both internally, and externally. The following article however possesses the same properties, & is decidedly superior in efficacy.

*Conium maculatum*, or Cicuta, in its general effects, is very similar to the *Hyoscyamus*, it is not indigenous, but flourishes well here. No part of the plant is inert, but the leaves only are used — they are dried & pulverised, or an extract is made from them. *Conium* was known among the ancients, & used as a mode of inflicting the punishment of death, as in the instance of Socrates. But its medicinal properties were first made known by Baron Storch, who recommended it highly in Cancer & Schirrus; and at one time, it was confidently expected to prove a cure for Cancer. —

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Though it will not cure this disease, it is an excellent 208.  
palliative & should be used internally in large doses,  
and externally, washing the ulcers with an infusion  
of the leaves, or applying a poultice of them.

It is used in the same way & with equal advantage  
in other ulcers of a morbidly irritated nature.

In Scrophulous swellings it is an excellent  
remedy, especially if combined with minute  
doses of Calomel, & used also externally.

The only cases of schismus I have seen relieved  
were under the use of Conium, & all cases of  
Schismus testicle. This however is a very rare  
disease; most of the cases generally considered  
as schismus are nothing but Sclerocoele, described  
by Ramsden, and depending on irritation or  
stricture in the urethra, & cured by bougies.  
See Ramsden on Dis. of Testicle.

In ulcerations of secondary stage of Syphilis,  
Conium in large doses is often very useful, &  
also in some buboes, which refuse to heal under  
the use of mercury.

In some obstinate diseases of the skin; one case  
of leprosy was cured in this city by Conium,  
& I have witnessed its success in some cases of  
obstinate herpes. It is also said to be useful in  
Elephantiasis, a species of Leprosy.

In Chronic Rheumatism I have used  
it in union with mercurials; this combi-  
nation I have found to determine to the surface,  
and relieve pain. - The same in the last  
stages of Pneumonic inflammation. In  
pulmonary affections I often use it in the  
Mucilaginous mixture in lieu of Laudanum.  
In Asthma it has been much celebrated,  
but the particular form, to which it is adapted,  
has never been distinctly pointed out. It appears  
to me best suited to the Spasmodic asthma.

Conium was once much used in Pertussis,  
but has now lost its reputation. Ruffed by  
my attempts to cure this disease, I have resorted



- Since writing this lecture I have used H Conium  
with complete success in some Cases of Chronic  
& peculiar inflam. of throat, which had lasted for years.

to the Conium, but have found it to allay the  
Cough, but without any permanent improve-  
ment on the disease. 109.

In the Neuroses, I believe, physicians are  
now well convinced of its inefficacy. It has  
been however recommended in Tic doulou-  
reux, & Fothergill relates Cures by it. Dr Jackson  
of Boston has also published several Cases in  
which it succeeded completely. See his paper  
in the Boston med. Journal.

In Mania of every variety, it has been  
much celebrated; I can say nothing of it from  
experience, but suppose it must be submitted  
to the same rules as opium. It is said to be  
adapted to puerperal mania & M. a potu;  
but it must be inferior to Op. & Camphor.

It has been recommended in glandular  
obstructions, particularly in Icterus & Amen-  
orrhoea. I believe it will be found useful  
in that form of Jaundice, which depends  
on obstruction of the biliary ducts, & I give it  
in the following form. R. Ext. Conii. ℥ij...

Pulv. Rhei ℥j; ... Gum Ammoniac. ℥i. - Sap. Venet. ℥ss.  
N. f. pill. 50. - of which ij or iij - t. d. - The Gum  
ammoniac is a very powerful deobstruent.

The same formula in Gastrodynia, Dyspepsia,  
Amenorrhoea &c. -

Conium however displays its best powers  
in Schismus, Cancer & Scrophula. in these  
diseases, it is inestimable; for no other med-  
icine produces the same effects; & I enforce its  
value the more, because Cullen & others have  
denounced it, & because it is too little used.

I commence with grs vj or viij of the ext.  
or dried leaves t. d. & increase it dose to ℥ij a  
day. If it produce giddiness, nausea &c, I inter-  
mit it for a day or two; but I always increase  
it till some sensible effects are produced. -  
its failure depends on the bad quality, & the small doses.

1711

The first of the year was a very cold one, and the weather was very disagreeable. The wind was very strong, and the rain was very much. The snow was very deep, and the ice was very thick. The people were very much distressed, and the cattle were very much starved. The sheep were very much killed, and the horses were very much starved. The people were very much distressed, and the cattle were very much starved. The sheep were very much killed, and the horses were very much starved.



LECTURE 37<sup>th</sup> January 26<sup>th</sup> 1845. 170.

We come now to an article, said to be the most powerful of the narcotics, the *Atropa Belladonna*, or deadly nightshade. a native of Europe, particularly abundant in Italy, but is not cultivated in any part of this Country; it is a perennial plant, growing in dark, and retired places. Every part of it is virulently poisonous, it bears a fruit resembling a cherry, which is sometimes eaten by children, who are soon affected by thirst, a dry mouth, trembling of the tongue, anxiety about the precordia, without the power of vomiting; delirium with gnashing of the teeth, and most horrid convulsions; the pupils are dilated, jaws locked, & death soon terminates their sufferings. — the body soon becomes putrid, with a peculiarly unpleasant odour. — On dissection extensive mortification is found to have existed. —

Yet this powerful article may be so managed as to prove an important medical agent. Besides its narcotic power, it increases the secretions, particularly perspiration, urine & saliva. — As regards the neuroses, it is now generally conceded, that it is not very efficacious, & that the praises lavished on it in mania & the comatose affections were ill founded. But it has been more successful in Cancer & schiirous. Dr Cullen, who is proverbially sceptical with regard to medicines, & particularly those of this class, says, "I have had a cancer of the lip entirely cured by it; a schiirousity in a woman's breast, of such a kind as frequently proceeds to a cancer, I have found entirely dissipated by the use of it; a sore a little below the eye, which had put on a cancerous appearance, was much mended by the internal use of Belladonna &c." Many other authorities might be adduced in its favour, and no doubt, it has been useful; but either from

- *Datura Stramonium* & *Datura tatula* both called  
Jamestown weed, & indiscriminately used -



Caprice, or a dread of using so powerfull a medicine, it has been prematurely abandoned.

In obstinate Ulcers, it has been used internally and as a wash.

It is an active diuretic, and hence has been recommended in Dropsy, particularly that following intemperance, by Dr. ... Phys. general to the King of Prussia; but I know nothing of its powers, nor can I say any thing of it in intemperance, in which it has been used in doses of opium to prevent the paroxysm.

Applied to the eye it dilates the pupil, and is said to bring forward the lens; thence is used in preparing for operations on the eye.

Lately it has been recommended by a German Phys. as a preventive & cure for Hydrophobia.

I have never employed it in any disease, but cannot but think it would prove a very useful medicine, & that it has been too hastily rejected from practice.

Dose gr ij or iij - t. d. - of the Extract, or dried leaves.

- Stramonium or James' town Weed. Thorn-apple &c. - it is doubted whether this be indigenous or not; but it grows abundantly in every part of our Country, on dunghills & other fertile spots. - In its operation on the system, it is one of the most powerful articles of the Nat. Med. and is closely allied to the other Narcotic Stimulants. Experiments prove it to act as a powerful stimulant, and it has produced Convulsions, mania, Tetanus &c. a curious account of its effects on a party of British Soldiers is related in Beverly's history of Virginia. - it produced a kind of fatuity for 11 days, when they recovered without the least recollection of what had passed - from this affair it was called James' town Weed. -



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Every part of the plant is active; but the leaves & 172.  
seeds are used; either in powder, or an inspissated  
juice or extract of the leaves. - Of either preparation the  
dose is gr. ij. b. d. increased gradually - I have given  
to the extent of grs XXX or XL a day. - Lately a satura-  
ted tincture has been introduced, but I have  
never used it.

Stramonium was originally employed by Dr.  
Stork of Vienna in Mania, Epilepsy, &c in  
which he ascribed to it very extensive powers;  
but its reputation was diminished by subsequent  
experience, & Cullen speaks contemptuously of it.  
Since its revival, it has been used in a wider  
range of diseases - From my own experience, I  
should judge it not to be very efficacious in Epi-  
lepsy; but many assert the contrary, & among  
them none more warmly than Dr Archer of  
Maryland, who declares it to be as successfull in  
Epilepsy, as bark is in intermitt. I find in Europe,  
and Dr Barton & Fisher in this Country have  
spoken more temperately of it. - On the whole, my  
confidence in it is but slender, tho' I would not  
exclude it from practice in this disease.

In Tetanus I do not think it promising much,  
tho' Dr Archer says it has cured it. -

During the few last years, it has acquired some  
celebrity in Asthma & Dyspnoea; yet I am  
inclined to think it is not very powerful in  
these cases. In spasmodic Asthma I have  
mitigated the symptoms, but doubt if it produced  
any permanent impression on the disease. I may  
say the same of the dyspnoea in the latter stages  
of Phthisis. In these cases, I have directed the  
root, bruised, dried, to be smoked in a pipe. -

Bree says, that when thus employed, it is always  
useless, & often dangerous, being more apt to affect  
the brain - My own experience teaches me otherwise,  
& its only effect I have found to be allaying irritation.

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*Stramonium* has been most used in cases of mental derangement; but as it is a stimulant, whenever any excitement exists, it must be preceded by depletion, after which it is very effectual in Calming the mind. but its action is not purely narcotic, for it produces often such permanent impressions on the disease as cannot be ascribed to its narcotic power. *Pluffland*, *Berging* &c extol it very much in these cases, & consider it the best of the whole class of narcotics. I have seen it given with various success, but the practice has not been sufficiently discriminate to enable us to point out the forms of mania, to which it is adapted. It certainly is never proper in the active state, and I am induced to believe it best in the *manicholia*; tho' some say it is most efficacious in cases of mania combined with Epilepsy & tending towards fatuity. In all these diseases it is usual to commence with small doses, and increase it till some sensible effect is produced; as gastric distress, giddiness, disturbed vision, dilated pupil &c.

It is said to be useful in Rheumatism and Palsy; but I have not met with any decided instances of its success; I have resolved to try it in these & some other diseases in which I think it promises much, & among them are *Amidrosis* and *Dysmenorrhoea*. Indeed I find it is much used as an *Emmenagogue* in New England. -

It has been used as a substitute for *Cicuta* in venereal, scrophulous & other ill conditioned ulcers.

It has not been much used externally; though it leaves steeped in brandy form a good emulsion in Rheumatism; & boiled in milk have been used in Gout, it is said, with great relief.

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An unguent is made by simmering the leaves 174.  
in melted lard, which I have found very useful  
in herpes & burns, & it is said to be effectual in  
Psoa. In piles, where considerable irritation  
exists, it is an excellent application.

It is said by its relaxing power to be successful  
in Clutchfoot, & a woman in this city gained  
some celebrity for curing Clutchfoot by this appli-  
cation. — I once saw it used with complete  
success, in a swelling of the kneejoint resembling  
the white Swelling. —

*Prunus Lauro-Cerasus*, cherry tree laurel —  
This plant is not found in this country, unless  
in the hot houses. It was introduced nearly a  
century ago; if exhibited in a large dose, as a  
wineglass full of the distilled water, it extinguishes  
life without a struggle — In a more moderate  
dose, it produces convulsions, tetanus, & all the  
effects of the narcotics. Dr Cullen remarks that  
in however large doses, it never excites in-  
flammation, and to this he ascribes the  
quickness & perfection of the recovery from its  
effects, when not mortal. As a medicine  
it is not much used, tho' in small doses it  
is said to lower the pulse, quiet irritability,  
hence it has been recommended in Phthisis.  
also in irritable gonorrhoea — In hypo-  
chondriac affections, it is said to invigorate  
the appetite, and raise the spirits. I have  
never used it, but think it promises much  
in Neuroses, & Cancer, Schirrus &c. It is  
said to have been used in Germany in Hydro-  
phobia with advantage.

The saturated tincture gr. v. to x. & the distil-  
led water of the leaves which are intensely  
bitter; gr. xxx to ʒ℥.

Its narcotic power is very volatile  
may it not exist in the prussic acid, which  
is found to abound in this & some other  
plants of the class? —





Lecture 38<sup>th</sup> January 27<sup>th</sup> 1815. 113

Numerous other narcotics, might be mentioned here, but as they have no peculiar properties, it would be unnecessarily loading your memory with useless information.

I am next to bring before you a new set of medicines, commonly termed Antispasmodics, a very vague name. — Spasm. consists in an irregular contraction of the muscular fibre, ~~traction~~ occurring both in a weak & low state of the system, as in Neuroses, & in a highly excited state, as in Colic, convulsions from narcotic poisons &c. In the first case stimulants would be the antispasmodic medicines, & in the last, R.S. & other modes of depletion.

There are however some substances, which allay pain, & quiet irritation, without producing the narcotic effects, or causing sleep. They are more permanent than narcotics, and seem to form an intermediate order between narcotics & the more permanent Stimuli.

(*Moschus moschiferus*.) The musk is one of the few medicines obtained from the animal kingdom; it is deposited in a sac near the umbilicus of the male *Moschus moschiferus*, an inhabitant of Siberia, Thibet, China &c. Somewhat resembling the reindeer, but belonging to a different class. A substance similar to it is secreted by the Skunk or polecat, & also may be obtained from some species of *feraximus*. It is imported in the sacs & is of a black colour, having a bitter taste & a strong penetrating odour. It was at one time a very favourite remedy, & has been tried in all the spasmodic diseases. In Tetanus & Hysteria used it combined with opium with no small success; & the West India writers also speak favourably of it. In Hydrophobia, it has been used with opium & particularly with Cinnamon, at one time celebrated.





but in common with every other medicine, has failed to cure, or even essentially to mitigate this refractory disease. Nor has it been much more successful in Epilepsy, Chorea & Tetanus.

It has a beneficial effect in Spasmodic Asthma, palpitation, nervous agitation &c.

In Gout in the Stomach, it has gained much celebrity, & Dr Cullen speaks highly of it.

In various states of mental derangement, it is extolled by Hilary, & Dr Cullen speaks of it as the best of all the antisp. & in the first edition of his Mat. Med. published from the notes of Dr Faulkner; but in the edition by himself, much valuable matter has been omitted, & in this he speaks with the less confidence in this remedy.

Musk was used in all low states of disease as early as by Dr Mead, who recommends it in nervous fevers, & no medicine has better maintained its reputation, or is given with more advantage than in Typhus, particularly for Subsultus tendinum, Singultus, low delirium &c. - Mr White of Manchester has recommended it highly in gangrene from wounds, with the following bolus containing ℥ss of each - - What I have said of musk is altogether from authority & not from experience, for it is seldom used here, on account of its impurity; it being very expensive, it is always adulterated. Dose grs X or XX. q. t. vel q. <sup>to</sup> h. - It may be given in bolus, but as it is unpleasant to the taste, it is best given as enema in children. -

Artificial musk, made by pouring nitric acid on oil of amber, has the properties of the genuine musk - it is generally diluted with alcohol for use. - Dr Baillie of London has very strenuously urged its use in Pestis.

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in this form; & Artific. must. Grs. XV.  
gum arabic Sacch. alb. aa ℥i. Ag. pur. ℥ij.  
m. a leasph or two, q. s. h. according to  
the age of the Child. —

Castoreum — a substance obtained from  
the Castor fiber or beaver, & secreted in two bags  
near the rectum of both sexes. the best is  
brought from Russia, but that in our shops  
comes from Canada, & is very inferior. —  
It was formerly in much repute as an  
antispasmodic; Van Swieten & De Haen  
recommend it in Epilepsy; but it is now  
only used by the followers of the old school in  
Hysteria. — In powder, grs X or XV. or in  
Tincture ℥ij or iij. — the dose. —

Asafoetida is obtained from the Ferula Asae-  
fetida of Lin. an umbelliferous plant re-  
sembling our fennel & growing particularly  
in Persia. — It comes to us in small grains of  
different Colours, whitish, reddish, violet brown;  
pretty hard but brittle; its taste is acid & bitter;  
its smell strongly alliaceous and fetid. — By  
keeping it close its power. — it is decidedly the most  
efficacious of all the fetids. —

In all the Nervous it is habitually pres-  
cribed, & is indisputably serviceable in Hyst-  
teria & Hypochondriasis; but it is too feble  
to contend with Epilepsy, Tetanus, Chorea.

In many diseases of the alimentary Canal  
it is highly serviceable, particularly when  
the powers of digestion are injured by habits  
of intemperance. As it is laxative, it serves  
also to keep the bowels open.

The preparation called the Gum pill is excel-  
lent for old people, strengthening at the same  
time that it empties the alimentary Canal.  
it is made thus. R. Asafoetid. Galbanum & Myrrh  
ae ℥i — Ol. Succini ℥i. and Syrup. q. s. f. pill.  
if pills are generally sufficient. — (D. Puyrier adds Aloe)



- The watery sol. or Mixture fetida is made thus R. Gum<sup>u</sup> fetid.  $\frac{ij}{\text{ss}}$   
Sacch. alb.  $\frac{ij}{\text{ss}}$  - Muc. f. Arab.  $\frac{ij}{\text{ss}}$  - m.  $\frac{ij}{\text{ss}}$  q. t. l.

By some it is extolled in all diseases of the chest, 118.  
and I can speak in the highest terms of it in Spas-  
modic asthma —

In pertussis it is indisputably useful; the  
most successful practice adopted in this city for  
Whooping Cough is purging on alternate days  
with Calomel, till 30th doses have been taken &  
the attack somewhat broken, & then the wa-  
tery solution of Asafetida is given with very  
great advantage. In severe cases, auxiliaries  
are called in, Emulies, Histery & Somet. &c. —

Besides pertussis, it is very useful in some  
other coughs, and particularly in the secondary  
stage of catarrh, when a difficulty of expecto-  
ration & dyspnoea exist — Indeed whenever  
a stimulating expectorant is required, the  
watery solution of asafet. is excellent, & no  
medicine answers better in cough after measles.

Asafetida consists principally of a gum resin;  
& is given in pill, tincture, or watery solu-  
- tion. the last is more prompt & less heating.  
dose per ℥ to ʒss. — As Enema, ʒij or iij in  
℔j or ℔ss. water — Dose of Tinct. sat. gt. xxx. —

Allium sativum is a very valuable article;  
in its operation a diffusible Stimulus & at the  
same time an expectorant, diuretic & occa-  
sionally a diaphoretic. As a stimulant it  
has been used by Bergius in intusssus, & he says  
with success, which I do not doubt, for I have  
seen decided effects from it. — It is a very com-  
mon remedy among the vulgar in intusssus,  
& is taken in rum, not infrequently curing  
the disease.

In Dropsies it was recommended by Sydenham;  
I have no experience with it, but should sup-  
pose it must be useful in dropsies depending  
on weak action, and sluggishness of the urinary  
organs.

Dr Lind says it cures Scurvy.

As an expectorant, it is used in Asthma &c.

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179.  
in Symplic or oylemel; is particularly useful in the  
Tupis Lemili, where the lungs from mere debility  
become loaded with mucus. dose

Also in many complaints of the alimentary  
canal, Dyspepsia with flatulency; but in no case  
have I been more pleased with it than in a  
vertiginous affection which is very common, & not  
attended with any fullness, & I presume, purely  
a gastric disease. The most usual mode of  
exhibiting it is to cut it into small pieces,  
which are to be swallowed - sometimes in jelly,  
the juice is too nauseous. -

It is externally used, & Sydenham thought it  
the best of all cat. irritants to produce a revulsion  
& used it in place of sinapisms. - The poultice  
is said to resolve tumours, & I have used it on  
whitlow & felon. - The poultice is sometimes  
applied to the abdomen to expel worms.

Frictions with the juice of garlic on the spine of  
children in Pertussis are a common remedy.  
In Deafness from Rheumatic affections of the  
head, it is introduced into the meatus, dipping  
a piece of cotton into the juice &c. -

Amber, a bitumen found on the coast of  
Europe, of a yellow or brown colour, sometimes  
transparent, sometimes opaque. It is not  
used in substance, but by distillation an oil  
is obtained from it, which is sometimes tho'  
seldom used. The only case I have seen it  
useful in is Singultus particularly in the  
low Fever. - dose grs. X or XV -  
It is used as a liniment for Sprains &  
bruises. -

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+ Hospital Rx. for blue pill.

Rx. Argent. viv. ℥ij. } the mercury to be beaten  
Pulv. Rhei ℥ss. } rated with the honey - then  
Mel - ʒ. ʒ. - } add the Pulv. Rhei - Each  
pill to contain about 4 grains.

Sialagogues are generally divided into external or topical, & internal; but as the former, commonly called masticatories, are of no practical use, I omit them altogether. Tho' a variety of articles occasionally display this property, as arsenic, copper, lead, the narcotic poisons, the mineral acids, and above all the Polygala Senega; yet their effect is so precarious & answers so little practical purpose, that mercury is justly considered the only real sialivant. Hence I have been led to rescind the order of sialagogues; particularly as the discharge is only incidental, not produced by all the preparations of mercury, & not at all necessary for their beneficial effects. As Mercury partakes of the properties of stimulants, & tonics, I have been induced to place it between these two classes.

Mercury is a metal, which is found in the bowels of the earth, sometimes pure & called virgin mercury; & somet. combined with various substances, from which it is purified by process, to be explained by the Prof. of Chemistry.

It is now admitted that mercury in its crude state has no medicinal property independent of its ponderosity. To fit it for our purposes, different operations are resorted to, & it is prepared principally in 4 ways; 1<sup>o</sup> by Trituration. 2<sup>o</sup> by Oxygenation, 3<sup>o</sup> Combination with Sulphur, & 4<sup>o</sup> by its union with the acids.

The first are very mild, & the mercury by long continued friction, is somewhat oxydized.

1<sup>o</sup> The Pillule Hydragyri or blue pill. by triturating mercury with Conserve of roses, or some mucilage, until the globules disappear. The formulae vary in different Pharmacopoeia; but they are here usually made to contain grs. each;



The first part of the book is a history of the  
city of London from its foundation to the  
present time. It is written in a simple and  
clear style, and is full of interesting  
facts and anecdotes. The second part of the  
book is a description of the city and its  
surroundings. It is written in a more  
poetical style, and is full of beautiful  
descriptions of the city and its  
surroundings. The third part of the book  
is a collection of poems and songs. It is  
written in a simple and clear style, and  
is full of interesting facts and anecdotes.

and two or three of them are to be given morning and night. The blue pill is one of the most gentle mercurials, & will not purge; yet it salivates as soon and as effectually as any other. It is fully adequate to fulfill every indication to which mercury is adapted, except that of purging. Hence it is much used in all cases where ptyalism is desired, & particularly in every form of Syphilis.

2<sup>d</sup> *Mistura Hydrargyri mucilaginosa*, or Runk's solution. This is made by rubbing mercury with mucilage of *S. Arab.* & adding water; ʒviij of the solution contain ʒi mercury, & the dose is about ʒi morning & night. It is most used as a gargle in venereal sore throat, a collyrium in Sympthia of the lachrymæ & an injection in gonorrhœa. My experience with it is but small, but I have used it in the cases just mentioned, & have found its effects unequal; I have derived most advantage from it in the Syph.<sup>c</sup> sore throat, & even here I think a solution of Corros. Sub. would have been equally successful. It is however a favourite remedy among many, & perhaps is worthy a fairer trial, than I have been able to give it.

3<sup>d</sup> *Hydrargyri Cretæ*. Three parts of crude mercury are rubbed with 5 of creta; & the dose of the compound is grs xv. or grs lxx. a day. It was supposed, from the creta contained in it, to be adapted to cases, where there was a tendency to diarrhœa; I have never used it, & believe the blue pill has entirely superseded it in this city.

4<sup>d</sup> The mercurial ointments, the *Ung.<sup>m</sup> mitius* & *Ung.<sup>m</sup> fortius*; the former is made by rubbing together one part of mercury, one of Suet, & 3 of lard, till the globules disappear. The latter (fortius) by rubbing equal parts of all. - As this operation is very tedious & protracted, various substances have been added to facilitate it; the *Spts* Turbintt; but this renders it too acrid and irritating to the skin; *Flos Sulphuris*, but this weakens the ointment. Rancid olive oil facilitates it very much & perhaps,

(Rancid oil must render it irritating, for when it <sup>ing.</sup> becomes  
old, & the base rancid it is much too acrid, at least for blistered surfaces  
(A piece of well rubbed ointment will answer very well to <sup>& Physic</sup>  
facilitate the trituration of a new batch. — D.P.)



182.  
- does not injure the ointment; but nothing answers  
so effectually as a small quantity of Rhubarb, a few  
grs to the ℥ss of mere. ointment.

In the ung: the mercury exists partly in a state of  
extreme mechanical division, partly oxydated &  
partly united with oleic acid, or a debate of mere.  
The oxydation of the mercury was long doubted, but  
it is now certain that the efficacy of the ointment  
is greatly dependent on the oxydation of the metal.

There are two modes of using the ointments, 1<sup>o</sup> by in-  
jection; 2<sup>o</sup> of the ung. fortis is mixed with mucilage  
of gum arabic for an enema; this mode is only used  
when an immediate effect is desired. The other mode  
is by rubbing it on the surface, as on the insides of the thigh,  
℥ij or iij to be used at night, & again in the morning,  
where expedition is required. In ordinary cases less  
will answer. — When an immediate effect is de-  
sired, the ointment is to be rubbed in the axilla &  
all other porous parts of the surface; mercurial  
socks, or drawers of flannel lined with ung: or the use  
of mercurial sheets. But except in desperate cases,  
this free use of the mere? should not be resorted to,  
as it might bring on such a state of the system, if  
it did not kill, as would render life miserable.  
However the only case of Confirmed Hydrocephalus  
I am convinced I ever cured, was submitted to  
this profuse mercurial practice. Dr Wiston  
saved the life of his own Child by it.

It is sometimes impossible to administer mercury  
internally, either on account of its purging, or other  
circumstances; and sometimes the largest doses  
are inert & will fail to salivate; what the state  
of the stomach is in these cases, I do not know;  
but the unguent externally applied will often  
succeed after the failure of the internal merely.

How mercury acts on the surface is a matter  
of controversy; It is generally supposed to be ab-  
sorbed, <sup>by the skin</sup> but others assert that it is inhaled into  
the lungs & then produces its effect. facts are adduced  
in support of each opinion; On one side it is said

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that a glove very generally protects the one who rubs, while the patient on whom the ointment is rubbed, is salivated. On the other hand, it is as well authenticated that the effluvia from mercury often produces complete ptyalism; thus I have known patients to be salivated by being in the same ward with those who were taking it. Persons concerned in manufactories are salivated by the effluvia often from a very moderate trituration. An unequivocal instance is related in the (Philos. Trans. of Lincol.) - A ship of the line, at the siege of Cadix, having some casks of mercury on board, one of them burst & the mercury was poured into the hold; By the slight trituration of this mercury from the motion of the ship, the whole crew (300) were salivated. But these facts do not militate against the doctrine that medicines do not generally act by being absorbed; for all must admit that absorption does take place under certain circumstances, as by relaxing the surface by the warm bath or fomentations, or by friction, dissimulating the substance under the scales of the cuticle. But does the mercury act by entering the circulation, or merely locally? My most deliberate opinion is that when any substance is applied to the skin, it produces a local action, & by an association of motions, this effect is communicated to other parts of the system.

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Lecture 40<sup>th</sup> January 31<sup>st</sup> 1815. 184.

In combination with Sulphur, mercury forms two Compounds; the 1<sup>st</sup> is the Black Sulphuret or the Ethiops mineral & is formed by tridulating equal weights of mercury & Sulphur. This is the most inactive and useless of all the preparations of mercury. It has been praised however as an alterative in glandular and cutaneous affections, & as an anthelmintic, but I have never found it of the least use. — the dose generally laid down is from 5 to 10 grains; but I have given a table-spoonfull without effect.

The 2<sup>d</sup> is the Sulphuretum rubrum, or factitious Cinnabar; in contradistinction to the native Cinnabar. — This red Sulphuret is made by rubbing 5 parts of mercury with one of Sulphur, the latter being in a state of fusion & the mixture is then sublimed; by this process the mercury & Sulphur are more intimately combined than in the former prep<sup>n</sup>, but it is yet nothing but a Sulphuret. It is used as a pigment under the name of vermilion. — This preparation was once used in cutaneous and gonorrhoeal affections, & combined with <sup>must</sup> Camphor formed the celebrated Chinese remedy for hydrophobia, mentioned above (Sup. 175.) The dose is from grs x to xx. — There is no material difference between the native & factitious Cinnabar, except that the former is less pure. — Neither is now used internally, but they are employed in fumigation. This is among the most ancient methods of impregnating the system with mercury, but from some cause it was laid aside. Mr. Cullen however recommends it, & I have seen him use it with signal advantage. The advantages of this mode are that it succeeds in

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producing ptyalism when all other means fail, and it is far more expeditious than any other mode. Also like the unguent it maybe used, when internal mercurials are inadmissible. Mr. Abernethy has continued a bath for the purpose of conveying the fumes to the body; & has produced salivation in some instances in a few hours. He says he never failed in this way of effecting a radical cure of syphilis. But Mr. Pearson thinks it more dangerous than the other modes, & finds it difficult to introduce in this way sufficient mercury to secure the patient against a recurrence of the disease. Mr. P. found that the gums became tender sooner, & the local symptoms more quickly disappeared under the use of fumigations than under the other modes; but they often produced such a degree of debility & so profuse a salivation, that he could not proceed with the cure. - Of course he concludes that this mode is not eligible in general practice, tho' he allows that it may be serviceable, when a sudden & immediate checking of the disease is requisite, and when the local affection is so extensive as scarcely to leave room for immunction. - Yet Mr. Abernethy asserts that there is no danger of a relapse, and I have certainly seen the most signal advantage from his treatment, tho' I have never used it, nor do I think it has ever been used in this City. Mr. Pearson in St. Luke Hosp. had to deal with the worst cases of syphilis, while Mr. C.'s practice being mostly private, his patients probably required less mercury than Mr. P.'s. -

Tho' the general use of fumigations has not been practiced here, yet the topical application of fumes in indolent ulcers, whether from a venereal taint or from other causes, has been used with great success. In all warm climates the prepuce, glans penis & the vicinity of the anus, are liable to a disease very much resembling Chancre, continuing sometimes a year or two, & arising without any venereal taint; this is very readily cured by topical fumigation.





Also ulcers in the fauces are very common here & often resist every other treatment except fumigation. Some Cinnamon is to be thrown on the coals, & the fumes are to be conducted to the fauces &c by a funnel & tube.

The oxydized preparations are of but little importance; the red oxyd or hydrarg. calcinatus is made by exposing mercury to an intense heat; & is sometimes used internally in dose of gr. j. 6. d. This was Mr. Hunter's favourite in the venereal disease, but is so harsh, that it is now almost abandoned.

The preparations by acids. 1. Hydrargyrus Nitrat. ruber, or red precipitate is prepared by dissolving mercury in nitric acid, evaporating the solution to dryness, & heating the dry salt almost to redness gradually in a crucible; the nitric acid is thus mostly driven off; some probably remain, & hence this prep<sup>n</sup> is more active than the red oxyd mentioned above. — It is never used internally, but is employed to cleanse ulcers, & stimulate them to action, as an escharotic for exuberant granulations, & with lard, it forms an ung<sup>t</sup> used for various purposes. —

2. Oxidum Hydrarg. cinereum or grey oxyd — is a diluted solution of nitrate of mercury, add aqua ammoniac, & wash the precipitate & then dry it. — this oxyd is given in the secondary stage of Syphilis, & is supposed peculiarly efficacious. It is said to be less apt to disturb the stomach & bowels than the other preparations, & I think the assertion is well grounded. — gr. ij or iij — 6. d. —

3. With Sulphuric acid, the Subsulph. hydrargyri flavus or Turpeth mineral — Equal parts of mercury & Sulphuric acid are boiled together in a close vessel to dryness — the result is a flaky matter, which by washing with water becomes a yellow powder — We have spoken of this preparation among the emetics. —

4. Hydrargyri alba; an ammoniated Sublimiate of mercury; It is only used externally — the ung. Calcis Hyd. alba, ʒi of this salt to ʒi Lard, for obstinate eruptions, herpes, & Psora. —



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5<sup>c</sup> The Corrosive sublimate or muriate of mercury. 187.

This is a most virulent preparation, & is given in doses of  $\frac{1}{6}$  or  $\frac{1}{8}$  of a grain & not safely more than  $\frac{1}{4}$  gr. nor ought more than one grain to be given a day. It is given either in pill or in solution in alcohol; the last is preferable, as it does may be more precisely measured. R Corros. sublim. grs ij. . . Alcohol ℥i. m. for a child one year old gr. 10. - for one two years old gr. vj or viij. & for an adult gr. xxx. - It is used externally as a stimulating escharotic for chancre, cutaneous eruptions, also as a gargle, Collyrium &c. - But it is particularly in the secondary stages of syphilis, that it is most used as an internal medicine. - Mr. Pearson says that Calomel is much more to be depended on for the cure of syphilis than Corros. Sub., tho' this is peculiarly adapted for relieving pains, ulcers of the fauces, & promoting desquamation in cutaneous syph. affections; but if it cures then, it does not secure the patient against other venereal symptoms. The result of Mr. P.'s experience is that the blue pill and Calomel are by far the best mercurials in syphilis, & ming<sup>d</sup> made with other prep<sup>s</sup> will not operate so quickly or surely as the common ointment. Many very respectable authorities however are in opposition to Mr. P. & many consider the Cor. Sub. as decidedly preferable in every form of venereal disease. Thus Dr. (Locke) of the Syph. Hosp. of Vienna says he cured in the space of 4 years upwards of 2000 patients by Corros. Sub. alone, without ever producing salivation, or any unpleasant affection of system. Dr. Horack also of V<sup>ie</sup> uses nothing but Corros. Sub. I believe that in the 1<sup>st</sup> stages, Calomel is preferable, but in the 2<sup>d</sup> stages Corros. Sub. is indisputably better than any other preparation. - It forms the basis of the remedies of the Empyres, who cure with it without inducing a salivation. 6<sup>c</sup> Calomel or Sublimiate mercury - of this we have already spoken under Cath<sup>er</sup> & other heads.

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We are now to treat of the application of mercury to the treatment of diseases. — no article of the Mat. Med. possesses such various powers, & there is scarce a disease to the cure of which it is not something applicable; but I shall limit my views to the most important.

It was first introduced by the Arabians & restricted to cutaneous affections, in which it was used only externally in form of unguent. It was soon after introduced in this venerea, some contend, by Empyries; but I think it can be pretty distinctly shown, that it was brought into practice by regular physicians, who were probably lead by analogy to its use in Syphilis, from its good effects in ulcerations &c. —

So much has been written on the use of mercury in Syphilis, that we need not dwell on it; yet I must make some few remarks. Contrary to a very general opinion, I am confident that the venereal disease is rare, & that not more than one third of the patients, who apply as venereal, are really so. In all warm climates the secretory surfaces of the organs of generation are apt to take on a morbid condition, producing ulcers, so similar to Chancre, as often to be mistaken for them; the same diseased state is also produced by the acrid discharges of the vagina, & the washes of the Coarctatus, when the penis is exposed to them by the act of Coition; The secretions of the glands may become acrid & produce the disease — These ulcers run the same course as Chancres, & among other analogous symptoms, produce inguinal swellings or buboes. This affection was, probably the origin of the Morale law of Circumcision.





Though this similitude in some cases exists 189.  
to a great degree, yet there is generally some  
marks by which these ulcers may be distin-  
guished from venereal ones. They are less  
retorted at their margins, more shallow,  
more rapid in their progress, & pour out  
more abundantly an acrid discharge. They  
generally yield to astringent washes &c. but if  
not, the remedies alter their appearance, so as  
to make it no longer ambiguous. Mercury  
internally seems to aggravate them, & the  
best treatment is to apply caustic, & then wash  
them with a solution of Corros. Sub. or brandy;  
after the eschar is removed. — Calomel sprinkled  
on them. — if Phagedenic, wash them with a  
Decoct. Peruv. bark or diluted Vinet. Wyork but  
our dernier resort is the use of topical mer-  
curial fumigations, by cinnabar &c. — It has  
been customary to treat them by the mercur-  
ial ointment, but my own experience would  
lead me to think this practice injurious.

There are many other affections resembling  
Syphilis, but we cannot treat of them here,  
I am the more willing to omit them, as I  
can refer you to Mr. Abernethy's full account  
of Pschodysphilitic diseases.

As to the mercurial treatment of the  
venereal disease, I shall only offer a few  
remarks. My own experience has satisfied  
me, that it has been wantonly used. A  
slight salivation is sufficient in recent cases,  
& is more effectual, when produced by small  
quantities of mercury gradually introduced,  
than when the condition of the system is  
suddenly changed by a large quantity. —



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In many cases, the local disease, viz. Chancre, 190.  
maybe cured without mercury by a persevering  
use of topical means. Several days, sometimes  
ten or fifteen elapse from the appearance of the  
chancre, before the system is contaminated;  
and during this interval we may safely trust  
to topical applications. Impressed with the  
persuasion that there is no absorption of virus,  
I have often, when a considerable chancre &  
bubo existed, neglected the internal use of mer-  
cury, & treated the chancre locally; & when  
this has healed, the bubo has been dispersed.  
In these cases the bubo is merely a sympathetic  
affection with the chancre. — But the cure depends  
greatly on the proper dressing of the penis. We  
must avoid attrition by the play of the prepuce  
over the gland, & for this, the prepuce must be  
kept back by strips of adhesive plaster; & the chan-  
cre is to be dressed with weak precipitate ointment.  
an accumbent posture, or at least an abstinence  
from all exercise is essential.

The vulgar notion of the system being satu-  
rated with the venereal virus is the cause  
of the wanton employment of mercury,  
by which a disease is induced worse than  
syphilis, & very properly called the "mercurial disease".  
my own practice is to keep up in ordinary cases a  
mild salivation for ten or twelve days. —

What are generally termed the symptoms of secondary  
syphilis, are often the effects of mercury, which  
in excess will produce all the symptoms of syphilis,  
ulcers of the throat, cutaneous affections &c. These  
require no medicine, but a cordial and nourish-  
ing diet, with whatever exhilarates the mind  
and invigorates the body.

Even in the secondary stage of genuine syphilis,

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only a very moderate quantity of mercury is 191.  
necessary; I prefer the Corros. Sub. here, & use  
it as an alterative. If it be found of any ser-  
vice, it is to be continued for weeks or months,  
but if not, mercurials may be laid aside.  
In this Secondary stage, it is often necessary  
to unite with the mercury the bark &c  
nourishing diet. — See Abernethy on Pseudoeph.  
Pearson, Matthias, Allen, & Boyl. Bell new York  
edition with very copious notes & additions.

Strambasia or Yaws. Some difference  
of opinion exists among Physicians with  
respect to Mercury in this disease; but the  
weight of authority seems decidedly in its  
favour, both as an internal and external  
remedy. — Hiday advises the use of calomel  
so as to produce a very profuse salivation  
for two or three days, & he says this cures  
the swellings, & produces a Desquamation.  
But Thomas is averse to the use of mercury  
in the 1<sup>st</sup> stage of Yaws, but recommends the  
diaphoretics, & in the 2<sup>d</sup> stage mercury as an  
alterative. — O'Baneroff recommends a  
combination of mercurials & Camphor. —  
I have treated a few Cases by a decoct. of Guaiac  
with Corros. Sub. —

Closely resembling this in some of its  
leading features is Elephantiasis — I never  
have seen it, but from authors it appears that  
it is to be treated in the same way as Yaws,  
viz. Stimulating diaphoretics, & small doses of  
some mercurial. —

Belonging to the same Class of diseases, but  
more closely allied to Syphilis is Sibbens, a  
disease peculiar to the highlands of Scotland.

*[The text on this page is extremely faint and illegible, appearing as ghosting or bleed-through from the reverse side. It seems to consist of several paragraphs of handwritten text.]*

It is to be submitted to the same treatment 192.  
both local and general as the secondary stage  
of Syphilis, but is usually more manageable  
than this disease.

Scrophula. As to the history of this disease  
I must refer you to authors etc. - Mercury is  
undoubtedly of use in this Affection, with  
bark, pectoral, exercise &c. - But it is to be  
used as an alterative & not as a salivary.  
hence it is given in small doses & continu-  
ed for weeks or months. - I have found  
great advantage from combining Cicuta  
with H. Calomel or Corros. Sublimat.

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Mercury, since its introduction by Dr. Christman, has been very much used in Yellow Fever, & we have in its favour the concurrent testimony of almost all the West India practitioners, who trust nearly exclusively to it. When it was introduced here, so great was the enthusiasm, that it was supposed by many, that it was infallible, if it salivated; but it was afterwards abandoned by many and distrusted by all. The Fevers of the W. Indies are biliary diseases, whereas our Y. F. is a pure gastric affection, unattended with disease of the liver; on dissection the stomach exhibits the same appearances of inflam<sup>n</sup>. as after virulent poisons. The most approved treatment of this Fever appears to consist, in moderate &c. at Commencement, purges of the mercurial Salts with Antimony, copious use of diluents, a sweating kept up for some time, & extensive blistering, particularly on the Epigastrium. But in the ordinary autumnal fevers, especially of the Southern States, which I am convinced are eminently bilious, the mercurial treatment is carried much farther, than we are in the habit of using it here. - Whether it be expedient to urge the Mercury to salivation, I cannot decide; as a general rule, I should think it not necessary; but in many protracted cases it may be requisite. -

In intermit<sup>t</sup> fevers, mercury is very strenuously recommended, & no one doubts its utility, as preparatory to the bark, but this is the extent of its use in recent cases. In chronic Cases, kept up by visceral obstruction, or by long continued habit, a salivation is imperiously demanded, & succeeds better than any other treatment.

- No disease requires more copious V.S. than  
acute hepatitis; I have seen it necessary  
to take from  $\mathfrak{z}\text{xxj}$  to  $\mathfrak{z}\text{xx}$ . twice or even three  
times in 24 hours, & this for several days  
in succession. (Ellis Chapman)



Of late years, mercury has been extolled by 194.  
Some in Typhus; (not the dis. which has prevailed  
here, but the S. gravior & mitior of authors) - I have  
mentioned above the plan of treatment ad-  
-opted by Dr Hamilton by mercurial purges;  
Dissections show that the intestines are loaded  
with a black viscid mucus, & this may  
be brought away by mercurial purges, with  
an immediate abatement of all the symptoms.

There is also another indication for which  
mercury may be used in Typhus; in the  
declining stage of the disease, when but  
little fever exists, great debility, with a black  
tongue, Coma & a few grains of mercury  
every two hours may be given, not to purge,  
but to stimulate the arterial system, arising  
on a mercurial fever, which I have often  
seen eminently beneficial. A combina-  
-tion of Calomel, opium & vol. alkali is an  
invaluable medicine in these cases.

In all the Phlegmasiae mercury has  
been recommended, but more particularly  
in the affections of the glandular system,  
-liver &c. In the acute attacks of Hepatitis  
mercury, except as a purge, is not required,  
the disease being more advantageously  
treated by V.S. & other depletions. But in  
the chronic hepatitis, no other mode  
of treatment than a thorough mercur-  
-ial treatment is safely to be trusted.  
Unless the symptoms are very urgent,  
it is proper to introduce mercury gra-  
-dually into the system; & small  
bleedings, blistering &c are often necessary  
to subdue the febrile symptoms, which  
may arise from the mercurial irritation.  
In Scurvy, abscesses, tubercular ulcerations





and other affections of the liver, mercury is also used. These diseases are with great difficulty discriminative, but it is of less consequence, as the treatment is precisely similar in all of them. Tho' they are so similar in symptoms, they differ greatly in their danger, & difficulty of cure.

In Anginous affections. The first application of mercury to medical use in this country, except in Syphilis, was in Cynanche maligna, in which it was used nearly a century ago by Dr. of Boston Mercurial Emetics particularly Turpett mineral are much recommended. I cannot say much of the mercurial treatment, tho' I should use mercurial purges, but would not induce ptyalism. There<sup>2</sup> gargles are much praised, & are probably well adapted to the disease, tho' I never used them. Plenk's Solution, or Sol. of Corros. Sul. would be the best gargles. In Cynanche Trachealis Calomel is among many, especially the Scotch physicians, the only remedy depended upon. Dr. Kuhn and it here nearly half a century ago, & Dr. Hamilton uses it in so intrepid a manner as may be deemed rash. He gives to a child two years old upwards of 100 grains in 24 hours, & speaks highly of this practice. I do not advise this treatment, for I believe my mode equally successful, & less hazardous, & less repugnant to popular prejudices. Whether the disease be spasmodic or not is of little consequence, & always begin by exciting vomiting, & with this view prefer Emet. Tart. — Some use the Antimonial wine or Speac, but the susceptibility of the stomach is so diminished, that these are not sufficiently active. If the Emetic





Tartar fail to produce vomiting, I place the patient in the warm bath for ten or XV minutes; If the stomach still remains quiet, I bleed copiously & repeat the warm bath; the disease must be very obstinate, if this does not succeed, but if the stomach yet resist, I bleed ad deliquium urinae, which I have never known fail to produce vomiting. - I then give a full dose of Calomel to purg. actively, & this generally carries off the remaining symptoms. But if hoarseness, tightness of the chest, & difficulty of respiration remain, I use the Diac. Poly. Sengs. The use of sinapisms early will often obviate the necessity of bleeding & ought never to be neglected. - Blister, Cupping, leeches &c. -

After the disease has continued for 3 or 4 days, the inflam<sup>n</sup>. usually spreads to the lungs, & it becomes a pneumonic disease, demanding the same remedies as other pneumonic inflam<sup>n</sup>s.

In all the stages and forms of Pneumonia mercury has been recommended by some. It was introduced by the New England physicians, & the only European, who recommends it, is Dr Hamilton of Lynn Regis - I should first deplete largely, & when action is reduced, mercury is a very important remedy. In the second stage of Peripneumony, Calomel with opium & Squill, or Specae, forms an excellent expectorant &c. -

In Phthisis Pulmonalis it was used as long ago as the beginning of 18<sup>th</sup> Century, by Dr Radcliffe in the case of William, King of England. Dr Rush has revived the practice in this country, & I have no doubt it has been sometimes successful; indeed I was a witness to two or 3 of the cases related by Dr Rush, but it is doubtful whether there were true tubercular cases. I have never had the good fortune to cure a single case





of genuine Phthisis, tho' I have used mercury 197  
freely in more than 100 cases. Indeed I believe  
Dr. Keck lost most of his confidence in it before  
his death.

But in some pulmonary difficulties from  
Syphilis, or affections of the liver, as in drunkards,  
the mercury properly exhibited, will do more  
than any other medicine. — In incipient  
stages of Phthisis from impure Pneumoniae,  
before ulceration has taken place, a moderate  
pyritism invariably arrests the progress  
of the disease. — But in genuine Phthisis  
from tubercles, or when extensive ulceration  
exists in the lungs, mercury is not only  
impotent, but eminently injurious.

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Lecture 43<sup>rd</sup> February 10<sup>th</sup> 1815.

198.

Mercury is equally suited to the diseases of the other viscera, the spleen, kidneys, pancreas. This last is so analogous to the salivary glands, that it has been supposed, & I believe correctly, that mercury has some peculiar relation to it.

In Rheumatism, we have already said, the efficacy of the diaphoretics was much increased by the addition of Calomel, & I believe the combination of Calomel, Ipecac & opium to be superior to any other. Some have recommended the decoct. Guaiaci to accompany the mercury. Doubt has been entertained, whether it was expedient to produce ptyalism in Rheumatism. Dr Clarke recommends treating it by the blue pill & mercurial frictions, but avoiding the least salivation; I have however often urged the mercury to salivation with decided good effect. Some cases indeed will not yield to any thing, untill the mouth is affected by mercury. Others recover during the use of the remedy, but relapse as soon as the ptyalism ceases; here a repetition of the mercurial course is not proper.

In Syphilitic Rheumatism; no one will doubt the propriety of a salivation, when any remnant of the venereal disease exists; but this is a rare occurrence, the most of the cases called Syph. Rh. being purely a mercurial affection produced by an abuse of the remedy. These are better managed by cordial diet, tonics and particularly Sarsaparilla, than by any other mode. I do not wish to convey the idea that mercury is never necessary in Rheumatism following Syphilis, but only to caution you against a promiscuous use of it; If the above mode does not succeed, a mercurial course may be tried.





In several diseases of the eye mercury has been used with advantage. In Amaurosis, exhibited for a long time as an alteration, & finally to induce salivation, it has been said to cure the disease. But amaurosis depends on so various causes, that our practice is necessarily empirical. Certainly however mercury is very worthy of our attention, as it sometimes succeeds.

But it is more particularly successful in some forms of ophthalmia especially the Syphilitic — Also in a protracted kind of ophthalmia, attended with constant pain &c, &c. — Trying all the usual remedies, a slight salivation often succeeds in effecting the cure.

Of late mercury has been introduced in the treatment of Mania, & is more used in this country, than in Europe. We have not yet been able to determine the cases to which it is best suited. It has been resorted to in the furious mania, & in melancholia, and perhaps, with equal success. The only caution is to precede its use, by bringing down the action of the system to a proper point — It is now usual to use it in all desperate cases, & its occasional success, plainly justifies the practice. —

In most of the intestinal affections, mercury is used with advantage. As a purge in constipation we need say nothing of it here. — In Colica pictorum D<sup>r</sup> Clarke gives Calomel gr<sup>s</sup> x or xv. or xx at a dose, & avers, that it rarely fails to open the bowels. D<sup>r</sup> Clutterbuck proposes small & repeated doses with a view to salivation. Both modes are proper, but adapted to very different stages. As yet I have never had occasion to resort to the use of mercurials in Colica Pictorum. —





In Dysentery I have already mentioned the use 200.  
of Calomel & Rhubarb in the early stages. Dr Elephorn  
was in the habit of giving Calomel gr iij or viij  
with Opium gr i to purge, & declares that this  
practice was most successfull. When great  
irritation exists, no doubt of the utility of this  
combination. I mentioned above the bene-  
ficial effects of gr x or xv. Calomel with Opium gr iij.  
in divided doses, in Cases of spasms &c of bowels,  
- where great irritability of the Stomach existed.  
But Dr Elephorn afterwards found the superior  
efficacy of a salivation in many Cases, & his  
practice was successfullly imitated by many  
practitioners of the East & West Indies. Having  
detailed above my practice in Dysentery, I  
will only remark that Calomel Opium & Spe-  
læe form my favourite diaph<sup>e</sup>, & that in  
protracted Cases, a salivation is sometimes  
the only mode of cure. But in the recent  
Cases, I should not resort to so unpleasant  
a remedy.

In the Neuroses Mercury has been cele-  
brated by some - In Epilepsy I never saw  
it of any use, tho' Cures are related. This  
disease sometimes depends on an effusion  
of water in the brain, & if ever mercury  
can be useful, it must be in these  
Cases.

In Dyspepsia and Hypochondriasis, which  
are usually Combined, mercury is much  
praised, & I can readily conceive its utility.  
For these diseases generally have their origin  
in obstruction of some of the viscera, particularly  
the liver, & here no doubt mercury would be  
very serviceable. But other Cases depend  
on a vitiation of the secretion of the Stomach,  
& the best mode of reestablishing the functions

*[The text on this page is extremely faint and illegible, appearing as a series of horizontal lines.]*



of this organ is by small doses of some mercurial, 201.  
to act as an alterative.

In Tetanus mercurial purges are very useful, but in traumatic tetanus, mercury, I believe, is of no great service. I suspect however that it may be efficacious as a preventive; the wound is dressed with mercurial ointment, & the pills are given to excite ptyalism; this is said by the best India physicians to be successful as a prophylactic.

In Hydrophobia, much as it has been extolled, mercury is of no service either as a preventive or cure. Indeed the only preventive is excision of the wounded part.

Believing as I do that the virus is never absorbed, but that the disease depends on a tribe of associated motions, beginning at the wound, I am persuaded that excision at any time before the appearance of the disease will be as successful as if performed immediately after the infliction of the wound. Nor am I certain that it would not be equally so, if performed as soon as the 1.<sup>st</sup> symptom appears, which is a darting lancinating pain in the wound. Thus the vaccine disease is prevented by the destruction of the pustule even 7 days after vaccination. Tetanus also is sometimes cured by the removal of the wounded part; & Syphilis is prevented by a timely cure of the Chancre. —

In difficult deglutition from Spasm, in Chorea, & other nervous affections, m. has been recommended; but I do not know it to be deserving of notice. —

In the Cutaneous affections the use of mercury is too well known to need exposition. In Leprosy however its efficacy is doubted, & by some it is said to be injurious. Others of equal respectability maintain the opposite opinion. I have seen only two or three cases of leprosy,





and then resisted everything. Notwithstanding 202  
this, I trust to mercurials as promising most,  
but probably a very long continued course would  
be requisite.

In Cancer mercurials have been much em-  
ployed, but I fear with no advantage. Cures are  
indeed recorded, but they rest on very dubious  
authority; in fact, no remedy is known, except  
excision of the diseased part. But there are  
some affections which resemble Cancer, & which  
yield to mercury, as Salivous ulcerations, & all  
obstinate ulcers; an ulceration of the tongue very  
similar to Cancer was cured <sup>by me</sup> by  $\text{Zij Cicuta} \& \text{p. gr.}$   
Corros. Sub. every day, after it had been abandoned by  
DoRac.

3. Dropsies. I have already mentioned its use  
in hydrothorax &c when combined with Squills.  
& Hydrocephalus accounts are very contradictory  
respecting the powers of mercury. The proximate  
cause or rather the disease itself is an increased  
action of the vessels of the brain, & the proximate effect  
an effusion of water into the ventricles. Now  
the inflammation is curable, but when water is once  
effused to any amount, I fear mercury & every  
other remedy will fail. It may be observed that  
about the 4<sup>th</sup> or 8<sup>th</sup> day, the violent sympt. subside,  
but this is only a treacherous calm, depending  
on the effusion by which the vessels are relieved.  
The water accumulating again produces the symp-  
toms of compression &c. - From this statement  
the contradictory accounts of authors may be  
explained - DoRush says it is very curable, & Do  
Moro says it is incurable; DoR means the in-  
flammation stage, & DoM after effusion has taken  
place. Absorbents have not been discovered  
in the brain, & their existence is doubted by some;  
the phenomena however of growth demonstrate  
their existence, & our ignorance of them depends  
on the defect of our anatomical knowledge.  
They act however very feebly in hydrocephalic effusions.

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After effusion has taken place, mercury is the 203.  
only remedy worth notice; to be effectual it  
must be boldly applied not only internally, but  
largely as the bowels will admit (& they are very torpid)  
but also by frictions, socks, sheet &c. The only cases  
of effusion I can suppose I ever cured, were  
under this mode of treatment.

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1771  
The first of the year was a very cold one, and the  
winter was very severe. The snow lay on the ground  
for many weeks, and the frost was very hard.  
The people were very much distressed, and many  
died of the cold. The government was very  
kind to the poor, and gave them money to buy  
food and clothing. The people were very  
grateful to the government, and they all  
praised the king and queen. The year was  
very good for the people, and they all  
lived happily ever after.

Lecture 4<sup>th</sup> February, 13<sup>th</sup> 1815. —

It would be easy for me to dilate on the application of mercury to the cure of diseases; indeed scarce a disease exists in which mercury has not been used; a physician of eminence in this city used to direct a mercurial course, whenever other forms of practice failed, & in this way acquired an immense celebrity for his extraordinary cures. But I have mentioned the principal diseases in which mercury is peculiarly successful, & have pointed out directions for exhibiting it. — But the improper use of the medicine, several diseases are produced, some of which I have mentioned above. Besides those resembling 2<sup>nd</sup> Syphilis, there are two other affections, particularly described by Mr. Pearson. 1. Erythimus. (See Mr. Pearson's work), in which he recommends the vol. alk, Camphorated mixture, Sarsaparilla. Cases of this kind have never come under my notice, but numerous instances have lately appeared in the British journals — The 2<sup>d</sup> is the Eczema mercuriale a venicular disease. (See Pearson) — In this he advises cooling antimonials, saline draughts, opium to relieve irritation, & a course of Sarsaparilla & mercuron with bark &c. — <sup>(cool air)</sup> Dyshour to the surface &c. — This is the Hydragryria of Mr. Alley, who describes 3 varieties, the H. mitis, H. simplex & H. maligna. To the above I may add the alarming symptoms brought on by a profuse salivation, violent inflammation & even gangrene of the cheek &c. A cure for this inordinate mercurial action has long been a desideratum, & a variety of means have been adopted — Surgings has been advised, but from my own experience I should think this useless, & even very injurious, as I have seen it excite the mercurial action, lying dormant in the system.





a Case occurred in the Almshouse, which exam. 205.  
-plifies this - A dropsical patient had been saliv-  
-ated 9 months before for Syphilis; he was now put  
on a Course of purges, & after 6 or 8 days, the mer-  
-curial action, for 9 months dormant, was developed  
& a profuse salivation came on, with swelling  
of the Cheek. Another Case occurred in a pa-  
-tient whom I had attempted in vain to saliv-  
-ate, but in the ensuing Summer, I purged  
him actively in a Fever, & a free salivation now  
came on, tho' he had not taken any mercury  
since this previous illness.

Sulphur has been recommended, but I have  
never seen any use from it. Indeed the only  
general remedy is opium, which relieves ir-  
-ritation &c. With it some local applications  
are to be used; & of these Blisters are far the  
most efficacious, but these are too severe to  
be used except in bad cases; Gargles of Perm-  
-anent bark, soap, lime water or the mineral acids,  
a strong decoction of green tea with Sugar  
is a very good one, but the best is a solution  
of acetate of lead; this however is objectionable  
on account of its effect on the teeth, rendering  
them black. Mr. Pearson recommends in  
the highest degree free exposure to cool air.  
This practice has not been imitated, as far  
as I know, in this City, but from the high  
authority of Mr. P. I should certainly resort to it.  
This closes my remarks on Mercury, & I  
now proceed to another appointment of medi-  
-cines, the Tonics. —

—(*Cinchona lanceifolia* is the *Cinchona officinalis* of Linnaeus.  
the *Cordifolia* is the yellow, & the oblongif. the red. Dr. Barton's lecture.)



Tonics, in the most extensive application of the term, form a very comprehensive assortment; but we apply the name in a more limited view, including only those remedies, which are used to correct debility.

As to their modes of operation much difference of opinion exists among authors &c. . . . .

They differ from the medicines lately spoken of in being much more permanent in their effects; those substances which quickly produce their stimulant effect are succeeded by a correspondent depression, but these are slow in their effects, & are not followed by this depression.

There are three sections of the Tonics, the bitters, aromatics & astringents.

The effects of tonics on the system are to augment the force of the circulation, increase the deficient secretions & restrain them when too profuse, to give strength to the muscular fibre, & renovate the powers of the system.

Nature has been lavish with the articles of this class, affording them in abundance both in the vegetable & mineral Kingdoms; I shall treat of them as they belong to either of these, & shall begin with the veget. of which:

Peruvian bark, or the bark of the *Cinchona officinalis*, which is a native of Peru. More than a century elapsed after the discovery of this plant, before its medicinal powers were known, & then they were discovered by mere chance. — So lately as the time of Linnaeus only two species of *Cinchona* were known, since which 12 others have been added; three of them only are applied to medicine; viz.

1. *Cinchona Lancifolia* or pale bark; 2. *C. Cordifolia* or red bk. & 3. *C. oblongifolia* or yellow bark. —

The process of procuring the bark is merely to strip & dry it by exposure to the Sun. —

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- (after using all of these, I am convinced that the pale  
or turnip is the best; it is least apt to produce those an-  
omalous diseases attributed to bark, least purgative & least  
liable to produce hemiplegia, stupor &c. Next, I think  
is the yellow bark, when pure, but it is now impos-  
sible to procure it unadulterated in this city. The  
Red, oblong, the Dr Saunders has eulogized, is, in  
my opinion, most apt to produce bad effects. - )

Dr Barton - See notes on his lectures, Vol 3.  
Art. Intuit.

The yellow bark is brought to us in flat pieces, not 207.  
contorted, in odour resembling the others, but is very  
smooth, & infinitely more bitter.

- As a medicine, the comparative efficacy of  
these species is not easily determined, owing to the  
adulteration generally practised. - When first  
introduced, the Red was preferred, but was soon  
so much adulterated, that the pale was generally  
used. - Both have lately been in some measure  
superceded by the yellow, in favour of which  
ample experiments in Europ. hosp. give a deci-  
ded preference. Some have said it was more  
unpleasant to the stomach, more apt to purge  
or vomit &c. but I believe these objections are  
ill founded, & that it is indisputably the best.

The operation of bark is very slow, & almost  
imperceptible, producing no sensible altera-  
tion in the pulse. —

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We now proceed to the application of bark to the cure of diseases. I have already mentioned that it was originally introduced as a remedy for intermittents. Even then amidst the vicissitudes of theories it still maintains its unrivalled reputation. There is now but little diversity of sentiment with regard to the rules for its exhibition, tho' formerly much difference existed. - Thus nothing was more common than the opinion, that the bark should not be given till some time after the attack of the fever. Thus Boerhaave's rule was "*Cum morbus jam aliquo tempore duravit*," & Bauwinkle his Commentator inculcated the same, & both followed Sydenham's opinion. - Directly the reverse is now admitted to be the proper practice, & the earlier we begin with the bark, the more speedy & certain will be the cure. - The only objection to the immediate use of it is the condition of the alimentary canal, & perhaps sometimes that of the sanguif. system. Some indeed deny the necessity of preparing the system for the reception of the bark; but it is generally allowed hazardous to commence without any previous evacuation, either by purging or purging; & hence either Emet. tart. or Calomel is prescribed. Emetics have here in a great measure given way to mere cath., but in some intractable cases, emetics are indispensable; they not only empty the stomach, but make an impression on this organ, which disengages those habits of morbid & perverted association, on which intuits and all periodical diseases seem to depend. Of their efficacy I have seen in my own practice the most decided evidence, but besides, there,

- Cullen's Mat. Med. (1773's edition) Vol. 2. Page 5829.



It is often requisite, for intumts very generally, *commune* 209.  
with inflammatory action, & unless this were removed,  
the bark would probably not be retained, or would only  
increase the violence of the inflam<sup>d</sup> symptoms.  
My rule therefore is not to administer the bark,  
before procuring the proper evacuations, & by fol-  
lowing this plan, I am confident, the bark would  
be again entitled to be considered, as it formerly  
was, almost a specific.

Intumts are not infrequently combined with  
visceral obstructions, in which cases the bark  
has been deemed inadmissible. "That there  
- "may be cases of this kind," says Cullen, "to forbid the  
"exhibition of the bark, I have not sufficient expe-  
"rience to determine; but I am well persuaded that  
"it would be very dangerous to admit of any general  
"rule on this subject. I am convinced that it is  
"in the cold stage of fevers, that accumulations of  
"blood are formed in the liver & spleen; that such  
"accumulations are increased by every repetition  
"of a cold stage; & consequently I am of opinion, that  
"even considerable obstructions of the viscera, if  
"without inflammation, ought not to prevent  
"the exhibition of the bark in such quantity as  
"may prevent the return of paroxysms." again,  
"in such cases I have freely employed the bark, &  
"never found it increase the affection of the liver,  
"or spleen; & in other such cases I have constantly  
"found that the receding of the bark, & admitting  
"therefore the repetition of the paroxysms, brought  
"on disorders, which frequently proved fatal."

In cases where no inflam<sup>d</sup> existed, there can  
be no hesitation; but when pain, fullness of  
the pulse be attend, bark might be mischievous;  
we then resort to v.s. blisters, & a slight salivation,  
which most commonly cures both the visc-  
eral disease & the intumt fever.

At one time it was doubted whether it was  
best to give it soon before the paroxysm; & Cullen  
declares in favour of the practice; but I can-  
not

*[The text on this page is extremely faint and illegible, appearing as light grey lines across the page. It seems to be a continuous block of text, possibly a letter or a chapter section, but the specific words and structure cannot be discerned.]*



not but think he is wrong, for when given at the moment of the accession, it must aggravate the symptoms. — Some indeed, as Dr Clarke, contend that no remission ought to be made in the exhibition of the bark, but that it is to be used during the paroxysm. But it is now a rule well established here, that the bark must be laid aside, as soon as the slightest exacerbation comes on. —

The ordinary mode of giving the bark is in powder, mixed in wine, spirit, or what I prefer in milk.  $\mathfrak{z}$ i or  $\mathfrak{z}$ ij, repeated as often as the stomach will bear, so that  $\mathfrak{z}$ i may be taken during the intervals. In some of the West India islands it is recommended to take  $\mathfrak{z}$ i at once in the morning, & abstain from during the remainder of the day. This has been imitated in this City by Mr. Dallas, with complete success in his own person. — Yet I doubt whether the practice could be generally adopted, as the stomach would not usually retain so much. In some, so great is the irritability of the stomach, that they cannot retain the smallest doses of the powder; & we are obliged to resort to the infusion or decoction, to which we add some aromatics, & particularly the Aristolochia Serpent. This combination will often succeed, when bark alone has failed, & is peculiarly adapted to children, & delicate females. —

The Remittent Fever bark has been used with great success; this might indeed have been anticipated; as it appears to be the same disease with Intermitts, under a different form, arising from the same Causes, & often interchanging with them. Yet it was once forbidden in these diseases, & the credit of overthrowing the prejudices against it is due to Morton. — However successful it may be in Europe, the practice must be received here with some limitation; for our Remitts are generally bilious dyscrasy & most successfully treated by P.S., purges &c. — Yet cases do occur, where there is less inflammation, & the remissions are longer & more distinct, & in these the bark will



- See Butler's *Mammals*. Vol 2. p. 71. -

Bark is used in several forms of continued fever; Dr Cullen says that, when then arise from<sup>th</sup> marsh effluvia, which produce intermittents, they may be treated by bark. - But this advice applied to this country would be eminently injurious; for this is exactly the case with our continued bilious fevers, which are inflammatory & will not admit the use of bark. Indeed the only form of continued fever here, to which the remedy is well adapted is the Typhus gra. vironmitior. - This is generally supposed to arise from human effluvia, but it certainly sometimes arises from marsh miasms, as do intermittents. At the commencement it is marked by a phlo. - gistic diathesis & bark is inadmissible; but there is a period where bark is to be introduced; this is neither at commencement, nor at the declining stage. As long as the pulse is excited, skin hot, eye wild, mind phrenetic bark is to be refrain from; and not less so, when subultus tremor, nervous tremor & low delirium have come on. The 1<sup>st</sup> set of symptoms is to be treated by purging &c - and the second by rob. alk. wine, blisters &c - But between them a stage exists, when the disease seems inclined to remit, & bark comes in with great benefit. -

In our own late epidemic, the Typhus pneumoniae, it was much used, but I never found any cases in which I thought it proper, except in the state of Convalescence, when it was very useful.

All agree that Bark is inadmissible in Synocha, but a very different opinion is held by some in the Phlegmasia, as in Rheumatism. As this is an inflammatory disease, I cannot think bark adapted to it; yet Dr Haygarth says bark in Rheumatism is inferior only to mercury in Syphilis. He proscribes it, as tending to induce a chronic state; & after antimonials, & opening the bowels, he gives the





bark in small and repeated doses. Sarsaparilla 212.  
and others advocate the use of bark, but none so  
far as D.H. — The I condense this practice;  
yet in some cases, after the inflam<sup>n</sup> is some-  
what abated, and the disease assumes a period-  
ical form, bark is admissible & often very useful.

Rheumatism arising in marshy grounds  
often assumes a Remittent form, & even an  
Intermitt, the patient being generally low & ema-  
ciated; & here the cure depends on bark. —

In Hemisrania, a periodical headache,  
I have used the bark with great success, pre-  
ceding it by an emetic; in this way I  
have cured the dis. when U.S., cupping &  
blisters had failed. —

In Gout the bark was a favourite remedy of  
Sydenham & also of the elder Gregory; another Phys-  
ician of eminence styles it a "divine remedy".  
Probably it is only adapted to those cases which  
are attended with great weakness, particu-  
larly of the stomach. — Gout however some-  
times is excited by exposure to marsh efflu-  
via & is only curable by purging & bark.

Mr. Francis of this city is under the neces-  
sity of visiting every year a marshy place,  
& he never returns without an attack  
of gout, assuming the intermitt form; & is  
never cured without bark. —

In several intestinal affections, particu-  
larly Dysentery, bark has been highly  
commended. Dysentery however is a  
genuine inflam<sup>n</sup>, & of course in the 1<sup>st</sup>.  
stage bark is inadmissible; indeed I can-  
not conceive a case of genuine unmitig<sup>d</sup>  
Dysentery, in which bark would be useful.  
But when it assumes the intermitt form, bark  
with opium during the intermissions is the best  
mode of treatment.



In some of the active affections of the lungs, our medicine has been used; In true Pneumonia its use is certainly prejudicial; tho' Senac advises it. — In what is provincially termed "pleurisy in the head", which assumes the same form as common pleurisy, except the head being more violently affected, the best plan of treatment is blistering the neck and the use of bark; the pulse is active & full but soft, & would appear to indicate b.l., but this is never practiced without injury.

In some Catarrhs, particularly the Catarrha tertiana, the proper treatment is bleeding and purging, and then exhibiting the bark.

In the influence of miasmatic countries the cure is not to be effected without bark; but in this country it is usually an inflammatory disease, & b.l. is necessary.

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Lecture 46<sup>th</sup> February 16<sup>th</sup> 1815

We proceed to speak of application of bark to some of the exanthemata. It was at one time used in smallpox, in consequence of an opinion that it favoured suppuration & filled the pustules, but it is now abandoned in common cases; yet cases may occur where from the great debility of the system, the pustules do not fill, and bark will be very useful; also in the secondary fever of smallpox. —

The measles, as they appear here, are generally very inflammatory & demand free &c. &c. But in the subsequent stage, an indistinct and obscure fever, assuming in some degree the milder or Revolt type, arises about X or XII days after the attack, & requires the use of the bark with Serpentina.

Erysipelas almost always assumes an inflammatory diathesis, & is only managed by blisters, & purging; but the case is very different in some other countries. A remarkable difference exists between the Scotch and English physicians in this respect; in Scotland it is inflamed, whereas in England bark is strongly recommended; Sir George Fordyce prescribes ℞i. q. h. —

Erysipelas is here sometimes an attendant on intemperate habits, & the tonic & stimulant plan is alone calculated to afford relief. —

Of the use of bark in Scotland I have little to say, not having used it at all. — Dr Cullen says that some cases of Sc. Angina are the same as the Cyn. maligna, & bark is the remedy to be depended on; but he contends that there is a Sc. Angina, in which the bark is injurious. In this country the inflamed type

*[The text on this page is extremely faint and illegible, appearing as a series of horizontal lines.]*



In hemorrhage I am inclined to think that the bark has been too indiscriminately used; in the active, it is undoubtedly improper, though it has been prescribed, & I think mischievously. Yet there are some hemorrhages which require bark, as those of low fever, of Scorbutic. also Menorrhagia depending on laxity of the uterine fibre - *R. Cinchon. ℥ij. Aq. cal. lbj.* digest for 3 or 4 days strain - Wine & ℥ss t. d.

Of the Nervous there is scarcely one, in which it is not habitually employed, but is chiefly praised in Epilepsy. This depends on such a variety of causes, & assumes such diversity of character, that no one mode of treatment can be laid down, as a general one. We usually however begin by depletion, & then follow up by tonics, of which bark is the chief. This is often combined with the mineral tonics, *Cuprum ammoniacum*, iron, white vitriol &c. -

D<sup>r</sup> Cullen does not think highly of it in Epilepsy, but considers it superior to all the other tonics in Chorea S. Viti. Whatever its powers may be, there can be scarcely a case, in which it ought not to be preceded by purging. - Sydenham treats it successfully by bleeding and purging; but after the system is reduced, the cure may be perfected by bark & other tonics. -

Of its use in Tetanus I know nothing. D<sup>r</sup> Rush & D<sup>r</sup> Horack have succeeded in a few instances, but they used so much wine with it, that it is difficult to impute the whole to the bark.

Pertussis in its primary stages is an inflam<sup>d</sup> disease, & is to be treated by U. S. mercurial purges, blisters, and antimonials.

- Cullen's mss. vol. 2. p. 70 -



But when the complaint is advanced, and kept 216.  
up by the power of habit, bark is very useful, un-  
less some congestion exists in the lungs.

Tinct. *Cantharidum* gr. iv or v. with each dose of  
bark forms a favourite remedy in London. *D. & L. & M. & C.*

In Asthma, bark has been too promiscuously  
used; in no one of its various forms ought it to  
be given during the paroxysm; but it forms a  
part of the treatment during the intermissions,  
to strengthen the system, & secure it against  
future attacks; particularly if the disease is  
attended by flatulency & gastric infirmity.

In almost all affections of the Stomach, bark  
has been used, chiefly in infusion; in confirmed  
*Dyspepsia* carbonate of iron is usually com-  
bined with it, & when any acidity, Soda.

In *Phthisis Pulmonalis*. *D. Cullen* says  
that when the exacerbations of the hectic are  
marked by more or less of a cold stage, & occur  
regularly & at stated periods (usually quoted; *Somet. 3. 29*)  
the bark will prevent their paroxysms for  
a time, & thus alleviate all the symptoms;  
but he never effected a cure, for in spite of the  
bark, the hectic would at last return, & prove fatal.

But then is a case of pulmonary disease,  
in which the utility of bark is much less  
ambiguous; x x x x x x x x, no hectic  
fever or night sweats attend; in this state, no  
serious organic lesion of the lungs exist, the pul-  
monary system merely partaking of the general  
debility; here bark & other tonics are our best  
remedies, & are often successful. These are pro-  
bably the cases in which Sydenham found  
hemlock so successful; but in this form  
*Digitalis* & mercury must necessarily be  
detrimental by increasing debility.





As a remedy for Scrophula, bark is now justly <sup>217.</sup>  
considered as one of the most important articles  
in its treatment. Scroph. is divided into two  
stages; the 1<sup>st</sup> when there are no ulcers or swellings,  
but only an evidence of the scrophulous pre-  
disposition, & here the bark with iron, nour-  
ishing diet, exercise &c. will often prevent the  
development of the disease. Nor is it less use-  
ful in the second stage, when the dis. has  
appeared externally; here I have derived very  
great benefit, from a combination of bark  
& mercury, but only as an alternative, for a  
deep mercurial ~~impregnation~~ is injurious.  
Even in the last stage, when large abscesses  
exist, the powers of bark have been much cele-  
brated for supporting the strength of the system.  
In Rickets, nearly the same mode of treat-  
ment is to be followed as in Scrophula.

Bark was at one time used in Cancer,  
& was praised by De Haen & others; but is  
now not considered as having any power.

In cases occurring in a loose & vitiated state  
of the system, it is used to support strength,  
and as a wash or poultice to the part. —

In some forms of Dropsy I can conceive  
bark to be very useful, as when there is great  
weakness of the digestive organs; but more par-  
ticularly when it arises in marshy countries  
& assumes the intermittent guise. —

In Scurvy the organs of digestion are much  
debilitated, and of course bark has been recom-  
mended. Linnaeus, Sir Thomas Milman &c. In that  
form, which attacks the gums, bark is by  
all allowed to be of use as a dentifrice, lotion  
& internally with myrrh. —

*[The text on this page is extremely faint and illegible, appearing as a series of horizontal lines.]*



Bark is used in several of the locales; In Liu- 218.  
Corrhœa, very improperly placed in this class, it  
is often very useful. This disease has been suppo-  
sed to be seated in the vagina, & from this patholo-  
gical error arises our want of success in its ma-  
nagement. I am convinced that it is a disease  
of the uterus, being a vitiated discharge from  
this organ; I was lead to this opinion by the fact  
that the menses are always interrupted in their  
albus, & by dyscrasia, the uterus being found pale  
and flabby. I therefore uniformly direct my  
remedies to the uterus thro' the medium  
of the general system. Infus. of bark with lime-  
water, & afterwards the Polyz. Seneg. as Emmenagogue.

I have used with success the bark & bals.  
Copaiva in old gleet, & in the gonorrhœa dor-  
mientium, a disease depending on debility of  
the genital system, often induced by unnatural  
indulgence. R. Cinchon. ℥i. Bals. Copai. ℥ij. n.  
make into electuary, & take the whole during  
the day. If it purges, add Laudanum.

In Gangrene & mortification no reme-  
dy has acquired so high a reputation as  
the bark. Much injury however has been  
done by the indiscriminate use of it. Gangren-  
is sometimes the effect of violent inflam. &  
sometimes proceeds from loss of tone. In the former  
case, tonics, at least in the 1<sup>st</sup> stage, are im-  
proper, & the inflam. must be subdued  
by V.S. copiously employed. — But when it  
results from debility or comes on in the low  
typhus fever, bark is to be perseveringly em-  
ployed, & its powers are much increased  
by Camphor, vol. alk., musk, Serpentaria,  
wine, wine & other stimulating drinks.

The use of blisters in arresting the progress



of gangrene has much lessened the employ- 219.  
ment of bark. But however efficacious the  
blisters maybe, the rejection of bark is impro-  
per. When it proceeds from wounds, bark  
may indeed not be necessary, but in most  
other cases it is requisite to support the strength  
of the system.

The unbounded confidence in blisters has  
lead to their too indiscriminate employment  
in gangrene; for in some cases they are not  
only useless, but injurious. Thus when there  
is great degree of debility in the capillary  
action of the part, they increase the evil; as  
in some Dropsies, Plethors, &c. in which they  
will sometimes produce mortification, &  
extend it, if it already exist. The same occurs  
in many cases of Erysipelas. — In fact  
they never can be useful, unless there is  
sufficient power in the system, or accom-  
panied by those remedies which support  
the action of the part, as bark &c. —

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-[The bark is first to be well incorporated with a tea-spoonful of milk in a cup, & then more milk added; in this way the bark will be well mixed, which cannot be done, if it is rubbed alone in large quantity of milk. This mixture must be made only at the moment, when it is to be taken, otherwise the milk acquires the bitter-sourness of the bark, & becomes a nauseous dose; whereas at first it is quite tasteless, the bitterness being covered by the milk. It is often very difficult to persuade infants <sup>or children</sup> to take it; they spit it out as soon as it is put in their mouth; while I was a student, I knew two infants to die of intussusceptions from this cause, merely because the Phys. did not know how to force the bark down. A 3<sup>d</sup> child was sick in the same family, & I placed it on the lap of its nurse, put an empty spoon in its mouth, & then with one hand closing the nostrils, with the other I poured down the bark in milk; so that the patient, not breathing thro' the nose, was obliged to swallow, & suffocate. Dose for infant 3 months old, gr. x or xv. — But I prefer the Sulphur in such children; indeed I have never been more satisfied with any medicine, than with Sulphur in the periodical fevers of children; these are not always attended with the usual circumstances of true intussusceptions, having no distinct chill, but merely a paroxysm of fever coming on every evening. I prescribe Sulphur gr. xv or xx. every hour during the morning till it purges gently, & half an hour before the accession of the fever, Laud. gr. ij. This mode is uniformly successful. — (Dr. Pringle &)]

R. Cinchon ʒi  
aq. fort. ʒiij.  
Coque ad. ʒij. & colu.  
Liq. addo  
Tinct. Colomb. ʒi. no.  
Tinct. Sassafras

Before discussing the subject of Bark, I will make a few remarks on the modes of exhibiting it. I have already said that the usual mode was, in powder, & that the best vehicle was milk. But many stomachs cannot bear it in this form, & it becomes necessary to extract its properties by some agreeable menstruum. It consists of bitter extractive, Tannin, gallic acid, mucilage and resin; the two last not soluble in water. The infusion is made by steeping ℥ij bark in ℔ij water, done according to the strength of the stomach; but it is a feeble preparation, & is seldom used except as a bitter. The decoction is much better & is made thus: ℥ij of coarsely powdered bark is put in ℔ij water, in a bottle & cooked - This is then placed in water, which is boiled for an hour; If boiled in an open vessel, the extractive principle unites with oxygen & precipitates, & much of the virtue is thus lost. The tinctures are so little used, that we need not notice them here. - By a tedious pharmaceutical process, an extract of bark is obtained, but it is a feeble and precarious preparation: (in pills).

To assist the bark and to prevent its injurious effects, various articles are combined with it. - By the addition of *Serpentaria*, its powers are increased, when we wish a more cordial and stimulating remedy than bark alone; as in low fevers, gangrene &c. - Camphor is united with it for the cure of very obstinate intermittents. Vol. alk, Musk, Camphor, in Typhus and gangrene. - Cloves, Cayenne pepper, Mustard, of either gr x or xii to ℥ij bark, in intermittents. Iron is added in diseases of the digestive organs; *Cuprum ammoniacum* & other mineral tonics in Epilepsy. Valerian in many spasmodic diseases. Cicuta is joined with it in Cancer; Ol. Cassia in Pertussis; Cream of tartar in Dropsies; & Carbonate lime or magnesia, soda or potash in acidity of stomach.



(said to be a *menispermum* or moonseed)



When the bark vomits, some aromatic is added, & perhaps *Serpentaria* is the best. 221.

When it purges, opium will prevent it; & if it induces constipation, Rhubarb is to be given with each dose.

Notwithstanding all these additions, some cases will not admit of the use of the bark by the mouth, on account of the great irritability of the stomach, which rejects it immediately; & in these, it has been used as Enema - I have seldom used it thus except in children; & tho' I may have done good with it, I am not certain that it is capable of curing any obstinate disease. it is also very uncertain how long it will be retained. - The Enema is made with  $\mathfrak{g}$ . arab. or starch & a little laud. added to the bark, of which  $\mathfrak{zj}$  or  $\mathfrak{zjij}$  -

Cataplasms over the stomach are sometimes used, & should be made with bread &g.

Baths of decoct. of bark, or of the oak bark are often very useful. - I have used it to check vomiting in Cholera morbus, in *Hæmorrhæ*, & Cholera infantum; & its success in one instance I owe my success in life; a case of abscess in liver, the patient had sunk under it, & was abandoned by her physician; her extremities were cold, senses gone &c. a few minutes after being placed in the bath of oak bark, her senses returned, & she became convalescent. -

Bark is applied to the surface in a dry state; & Darwin says that if strewed in the bed of the patient, it will cure intermittents, but to believe this implicitly requires faith; I have seen it used quilted in jackets with considerable benefit in delicate females & infants; but must be taken off during the hot stage, as it aggravates it. - In great majority of cases it fails, & is at all events a miserable substitute for the internal exhibition of the medicine - It acts merely by sympathy &c.





As nearly allied to bark in many of its pro- 222-  
perties, I am next to speak of the *Serpentaria* *Prop.*  
or *Kristolochia* *Serpentaria*; a perennial plant,  
native of our own country; the root only is used,  
and is aromatic & bitter. It is an astringent,  
tonic, diaph.<sup>c</sup> & sometimes diuretic. It was  
early used in the cure of intumts, but it is  
not clear that it is capable alone of curing  
them. Sydenham used it with wine in  
intumts, & recommended it to be added to the  
bark, whenever it is proper to give wine, &  
the correctness of this practice has been confir-  
med by subsequent experience. It not only  
adds to the power of bark, but also enables the  
stomach to retain it. - In Remittents it is  
often decidedly superior to the bark, as it suits  
the stomach much better. - An excellent for-  
mula in intumts, & much used in this city,  
is the following: *R. Perm. bark*  $\mathfrak{ss}$ . *Powd. Serpent.*  $\mathfrak{ss}$ .  
*Carbonate Soda*  $\mathfrak{ss}$ . m. divide into 4 powders,  
one to be taken 4 times a day. - Why this should  
have any peculiar power, it is not easy to  
explain; but the fact is not less certain.

*Serpentaria* is a popular remedy in the  
secondary stages of pleurisy & other pneumo-  
nic affections; & in Catarrhs, Rheumatism  
it is used as a diaphoretic, after one or two *vs.*

Also in dropsies, in which I should suppose  
it might often be useful, particularly if they  
assume any thing of the intumt form.

In the bilious pleurisy, there is much gas-  
tric distress, & vomiting of bile & the system will  
not bear depletion but must sink under *vs.* bleed-  
ings; the best practice is, after a moderate *vs.* if  
necessary, to give the infusion of *Serpentaria*  
to induce diaphoresis. This is a Southern disease,  
& mercurial purges are much more necessary  
among the Southerners, than with us. -

I have only one more remark to make with  
regard to *Serpentaria*; that it is admirably



-(said to be a menispermum or moonseed.)

directed to tranquillize the stomach, particularly <sup>223</sup>  
in bilious vomiting. Decoct. Serpent. <sup>Hyss. prosernat.</sup>  
Dr Rush owed his life to this medicine, after an  
attack of bilious fever, when nothing else would  
allay his vomiting.

The *Angustura*, a kindred article, is a late  
and I suspect a very valuable acquisition.  
It is the bark of a tree native of S. America, to  
which Baron Humboldt gave the name of  
*Custaria fetrifuga*. it is brought to us in small  
pieces, bitter to the taste, & slightly aromatic.  
It at first promised to supersede the bark;  
but experience soon corrected this mistake,  
& Physicians, running to the other extreme,  
abandoned its use entirely. But of late some  
of the English Physicians, partic<sup>l</sup>r Mr Brandt,  
have recalled our attention to it. They extol  
it, as superior to bark, in Typhus, as it does  
not offend the stomach. I have as yet only  
used it in Chronic diarrhoea... It is exhibited  
in Infusion, decoct. or powder, which last is the  
best mode. Dose ℥i to ℥ij. —

Of the plant supplying the Columba we  
know nothing certain; it is brought from  
Columbo in the island of Ceylon. It is the root  
probably of an herbaceous plant; it is in-  
tensely bitter. It was once used in infant  
fevers & Remitts, but was found to inferior in  
power to Cinchona, that it was laid aside; &  
the only form in which it is now used,  
is the tincture, particularly of Phthisis, & it is  
certainly given with advantage.  
But it is more especially used in com-  
plaints of the alimentary Canal; In the  
W. Indies to check bilious vomiting. In the  
latter stages of Dysentery, & still more in the  
Cholera infantum to restore tone to the ali-  
mentary canal. O'Callan speaks well of it  
in Dyspepsia & I think with reason.  
It is by some given in combination with

- [qn x or v. are sufficient, if repeated 5 or 6 times a day.-  
a Decoct. of Columb. & orange peel, ℥ij. ʒ. ʒ. a very pleasant tonic.  
It extract, in pills containing each grs ij. & 3, 4 or 5 pills a day, is  
frequently given. - The infus. or decoct. soon spoils if  
kept, becoming acid. - - - & Phlegm.]

+ (This is the *Fraxera officinalis*.)



with steel, but this, I believe, destroys its bitterness, on which its good effects depend. In powder it is usually given in doses of  $\text{grs } \text{X} \text{ or } \text{XV}$ . but this is quite incorrect, & the dose should be from  $\text{ʒj}$  to  $\text{ʒij}$ . — It is given in infusion, but in making a decoction, the power is evaporated. —

\* A species of *Columba* is found near Marietta, Ohio & is said to be equal in power, if not superior to the imported. This I doubt, as the specimens I have seen were less bitter & of a lighter colour. —

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Among our native articles is the thoroughwort or *Eupatorium perfoliatum*, of which we have already spoken among the diaphoretics. Besides its emetic & diaph<sup>c</sup> properties, it is also a powerful tonic; but its effects depend on the mode of exhibiting it. It is emetic or diaphoretic, when given in warm infusion; but in cold decoction or in powder, it is tonic. In New York it has been most extensively employed in intermittents, Remitts, Yellow fever, Catarrhs, & many cutaneous affections. It seems peculiarly adapted to intermittents & Remitts, as it may be continued during the hot stage as a diaphoretic.

There is another species of this genus, also endowed with some medical powers, the *Eup. pilosum*, or wild hoarhound. It is tonic, diaph<sup>c</sup>, diuretic, and mildly cathartic; at the same time not offensive to the stomach like the bark. The infusion is made with ℥i of dried leaves to ℔ij water; of which ℥ij or iv. may be taken 4. quatered. — or it may be given in substance, alone or with bark; I have not been enabled to experiment with it, but it is a popular remedy in Virginia in weak & depraved stomachs, in Catarrhs and obstructions. Coughs, &c. & is used as a tea —

Of the Centaury we have a species not inferior to the European — the *Chironia angularis*. (that of the shops is the *Centaureum minus*). — It is a very pure bitter, slightly aromatic, & not unpleasant to the stomach. — It is much used in Intermittents, Remitts, &c. & may be continued in every stage. — <sup>as much of the infusion or decoction as the stomach will bear.</sup>

*Cornus Florida* & *Sericea*, each of which is a powerful tonic — The *Flor.* is too familiar to you to need description; the *Sericea* is a shrub, called red dogwood, growing exclusively in marshes. — The *C. Flor.* is nearly allied in its sensible qualities to Cinchona, & it is probable that it might be often a good substitute.





I have no experience with it, but the concurrent 225.  
testimony of many respectable Physicians leave  
no doubt of its efficacy. It is administered in all  
the forms & the same doses as the bark. - Of the  
C. Seneca I know but little - same doses &c. -

*Prunus Virginiana*, the *Cerasus Virgia-*  
*nica* of Michx., & the *P. serotina* of Willd.;  
the common wild cherry of our country. The  
bark, & particularly the bark of the root is the  
part to be used. It is given in Tincture, in-  
fusion, decoction or powder, & the doses the same  
as those of most other similar articles.  
It has been used in Intermitts and Remitts, &  
is spoken of in extravagant terms by some  
practitioners. My experience is confined  
to its use in pulmonary affections, & I have  
been much pleased with it in hectic, whether  
from Phthisis or other causes, or humoral dyspe.  
It often mitigates the Cough, restrains the  
diarrhoea, checks the sweats, & invigorates the  
appetite; Still it is a mere palliative. -  
In asthma, benefit has resulted from a long per-  
severance in its use; I have used it in both  
the pituitous and Spasmodic Asth. with equal  
advantage; I have given it as a tonic during  
the intervals, & have derived as much assist-  
ance from it as from any other article.  
It has been used in Dyspepsia, Chronic  
diarrhoea, Cholera infantum &c. The  
I have never used it in these diseases, I am  
persuaded it would be beneficial in all ca-  
ses, to which the Cinchona is applicable.  
See Morris' Enang. digest. on *Prun. Virgin.* -

There are many other vegetables, native  
of our country, possessed of similar power;  
but as they are comparatively but little  
used, I shall omit them here, & pass on  
to the mineral tonics.





The preparations of Iron are entitled to the precedence 227.  
-ence, from their superiority over all other min-  
-erals, excepting perhaps mercury. Iron is supposed  
by some to be inert in its crude state, but this  
is not correct, for the gastric juice readily acts on  
it, & when reduced to a state of minute division  
by sifting &c. it is a very valuable medicine.

By the processes of chemistry many preparations  
of iron are made, but few of them are retained  
in medicine; indeed the properties of all of them  
are possessed by three, which alone we shall mention.

1. The Rubigo ferri, rust or Carbonate of iron, is  
more powerful than the pure metal, & less  
acid than most of its salts. Dose grs. v. x. xx. T. d.  
given in Syrup, or in pill & generally combined  
with some aromatic, as gentians. - The Chaly-  
-beate wine is made thus: R. Carbonate of iron  $\frac{3}{4}$  ss.  
Orange peel and Gentian ad  $\frac{3}{4}$  ss. - These are put  
in a bottle of port wine, & exposed to the Sun or  
gentle heat for 3 days & then decanted. Dose  $\frac{1}{2}$   
or  $\frac{2}{3}$  wineglassfull - T. d. -

2. Sulphate of iron or green vitriol; dose.  
its only superiority over the others is that it is given  
in smaller doses - It is administered in form  
of pill & generally with myrrh.

3. The Muriate surpasses all other prepara-  
-tions of iron in power - it is generally given in  
Tincture of which gr. xxx may be taken T. d.  
but if the Stomach is at all irritable, it will  
excite vomiting - It may be mixed with water,  
or preferably with Aq. Cinnamon. -

The Iron has always been a favourite rem-  
-edy among physicians of every country;  
it was supposed, that, as it constituted a  
part of the blood, it would be readily admitted  
into the Circulation, & thus produce its effects.  
But experiments have shown most decidedly  
that it never can enter even the Chyle -





It is indeed a fact well known, that the blood be. 228.  
comes more florid under the use of Chalybeate  
medicines; but the same may be said of other  
tonics. —

In its operation on the System, iron is a  
powerful and permanent tonic; & the indi-  
cations, which it is calculated to fulfill  
are numerous and extensive. When speak-  
ing of bark, I mentioned the use of iron with  
that article in many diseases, particularly  
the Nervous, Chronic Debility, &c. But it is  
applicable to many other affections; & hen-  
orrhages it has been given, under the idea  
of its being an astringent, but of this we  
have no proof, nor is this property necessary  
to explain the effects of iron; I should use it  
exactly in the same cases, in which bark  
has been commended; but it is best suited  
to menorrhagia, depending on a laxity of  
the uterine vessels; It may appear para-  
doxical that our medicine is equally sui-  
ted to Menorrhagia & to Suppression of the  
menses; but each <sup>has</sup> its origin in a state  
of the System, to be treated only by tonics.  
In some of the Cachexia our medicine has  
been much used — In all ulcers of an obstinate  
and malignant nature. Of late even in  
Cancer, large & frequent doses, continued for  
a long time, have been commended; washing  
the ulcer with M. T. muriat. — or covering it with  
the Carbonate. — Even allowing that it never  
can cure, it certainly may palliate the  
symptoms, & undoubtedly it cures some very  
malignant ulcers, which resist all local  
treatments. —

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D. Thynick has seen obstinate intruth, after bark &  
had been used without effect yield almost  
instantaneously to Sulph. cupr. gr  $\frac{1}{4}$  q. h. - (E.B.)

The next metal we are to speak of is the Copper, which differs from other metals in not being insipid & inodorous; for it has an unpleasant taste, & when rubbed, a disagreeable odour. Still in its metallic state it is inert, & will act on by the fluids in the stomach; as when a cent is swallowed, it produces after a time, very violent effects among others, a profuse salivation. - It is never used medicinally in its metallic state, but is prepared for use by chemical processes.

Of the Sulphate of copper or blue vitriol, we have already treated among Emetics, but this is not its only property; in doses of from grs. ℥ij to ℥ss. it is used in obstinate intermittents, & is particularly extolled by Dr. Osier of London & Dr. Monro of Edinburgh; the latter uses the following R. Sulph. Cupri - grs. iij. - Extr. Cinchon. grs. xxxij. Syrup q. s. f. pill. xij of which one 4 times a day, for two or 3 weeks. I have never used it, but the authorities in its favour are very respectable. It forms the best injection for gleet, that I have ever used; grs. ʒi to ℥ss, but sometimes much stronger. On the whole however a much better preparation - is the Cuprum ammoniacum or ammoniac of copper. This is chiefly applicable to some of the Nervous, Hysteria, Chorea and Epilepsy; of its utility in this last we have indisputable evidence. Dr. Cullen says it has performed many cures, & an Italian physician says it hardly ever fails in idiopathic epilepsy, if the action of the system have been previously reduced. This last clause contains an important practical remark; for copper being a stimulant, it should not be given, while there is too much action. - It has been my lot to witness pretty extensively, here & in Europe, the use of this medicine in Epilepsy, & the result of





my experience is, that in some instances, particularly in children, it protracts to a more distant interval the return of the paroxysms; but never in a single case, have I seen it effect a cure. Still it has been too highly recommended to be hastily abandoned. It is best to begin by small doses, & increase gradually as far as the stomach will bear. Dr Cullen advises intermitting, after some time, as he fears an accumulation of it in the system would produce the same mischievous effects as lead; but I think his fear is unfounded, for I have seen it given for months, & Dr Battie of Genoa gave  $\mathfrak{xxv}$  without interruption, & cured the patient, & no bad consequences resulted from the medicine.

It has been used in some of the Cachexie, and Dropsies; it is a diuretic & probably may be introduced with benefit in the treatment of Dropsies.

Acetate of Copper, *Crugo asis* or *verdigris* is now only used externally; as an ointment in the *Herpes Capitis*, Chancres, & phagedenic ulcers, also a wash of  $\mathfrak{ss}$  to  $\mathfrak{ss}$  water for the same purposes, and a much weaker one as a collyrium.

Zinc in its metallic state possesses no medicinal powers, but many of its compounds are used.

The *Oxyd* or *Flower of Zinc* has been much used in Epilepsy in doses of  $\mathfrak{ss}$  to  $\mathfrak{ss}$  in pill; and I have certainly seen it beneficial. Dr Kuhn cured a very violent case with it, & Dr Barton a case of chorea.

Sulphur of Zinc or white vitriol is by many used in all nervous & spasmodic diseases; & it is not difficult to collect many evidences of its utility. I cannot say it has ever cured Epilepsy or chorea in my hands, because I have never trusted to it alone; but have always commenced by purging & after

- (In this formula, a decomposition takes place, & the infusion  
is nothing but a solution of the acetate of lime.)



which, I have used the following combination, 234.  
℞. Sulph. Zinc. grs ij — Valerian grs x. Cinchon. ℥j.  
m. — t. d. increasing the quantity of the vitriol  
to ʒj. t. d. —

When on emetics, I mentioned that this ar-  
ticle had been highly commended as an anti-  
spasmodic in Pestilence; I have tried it,  
but have not found it at all equal to the  
asafoetida. — In some forms of Asthma &c.  
It is used as an injection in gonorrhoea;  
— grs viij of the S. Zinc — Sacch. saturnus grs x. garab. ℥ij  
Water ℥iij. m. — If great irritability with chills  
attend, Laud. ℥j is added. In old gleet it is to be  
made much stronger, or what I prefer with the  
Corros. sub. grs iij or iv. —

A collyrium is made of wh. vit. in Rose water. —  
Of the Acetate of Zinc, I know but little from  
experience; it is actively emetic, & adapted to  
all the cases, in which the wh. vitriol is used;  
many prefer it to the Sulphate as an injection  
in gonorrhoea — grs x to ʒi water. —

Tertia, an impure oxide of Zinc, is found  
in the mines of Persia — it is used in weak  
solution as a collyrium, but more frequently  
in form of unguent for inflammation of the tarsi.

Lapis Calaminaris, a carbonate of Zinc;  
is used as a collyrium, as an escharotic in some  
specks on the Cornea, & in chronic ulcers of  
weak & relaxed habits. Mixed with ar-  
menian bole, p. c. — in excoriations of children,  
discharging a thin sanies. —

Bismutha; the only preparation used is the  
Subnitrate — to Dr Molini of Genoa we are indebted  
for this addition to the weak med. Dr Marcet  
of London revived it, & established its reputation.  
He states that he has made a full trial of it, &  
is confident of its utility. Since his publication,  
it has been much used, & all speak well of  
it, in Gastrodynia, Pyrosis, Cardialgia, & the Depress-  
ed





depraved state of stomach incident to pregnancy. It has been used in Boston, & with very considerable success in these cases; See *Bost. Med. & Surg. Journal*. As yet it has not been much used in this City; my own expectations have been somewhat disappointed, but this has not destroyed my confidence in it, for no diseases are so difficult to cure, & depend so much on Diet &c as these — It is certainly a safe & active medicine; Dose  $\text{grs } \text{vj. } \text{b. vel } \text{t. d.}$  — with *jam. arabic*, *sugar* &c. —

Silver is distinguished for the difficulty of its oxidiments, but acids, particularly the vitric, act on it. The Nitrate is the only preparation used in medicine; it was long ago introduced, but was laid aside on account of its harshness; to Dr Stevens we owe its reintroduction, & by him it was used with success in Epilepsy; since this Bostock, McGinnis & others boast the same success. It has been used here, but not with much benefit. It is also said to have cured Chorea — One case of *angina pectoris* is recorded, cured by it, on the authority of Dr Cappel — We may begin with  $\text{grs } \text{ss. } \text{b. d.}$  in pill. — Of its external application, I need say nothing; As you are all familiar with it. —

Gold was introduced by Dr. Christian & Montpelier, & is used in state of minute division, 2<sup>d</sup> in state of oxyd, 3<sup>d</sup> oxyd with ammonia, 4<sup>th</sup> oxyd with oxyd of tin, & 5<sup>th</sup> the muriate. They are used only in frictions to the joints, Cheek &c. & among them the muriate is far most powerful. — The 1<sup>st</sup> prep<sup>n</sup> is given in doses of  $\text{grs } \text{ij}$  a day — 2<sup>d</sup>  $\text{grs } \text{ss}$  to  $\text{grj}$ . — 3 & 4 still smaller, & the muriate  $\frac{1}{2}$  to  $\frac{1}{10}$  gr. a day. —

It appears that these medicines speedily cure Chancres, warts, & syphilitic ulcers.





They are also represented as powerful in diseases  
 of the uterus, leucorrhoea, & other glandular affections.  
 In New York the med. has been tried extensively  
 & with complete confirmation of Dr. Christen's ap-  
 positions in its favour. If these be really correct,  
 it is a very valuable acquisition; for the cure  
 is effected without salivation, & the exhibition  
 of the medicine is not prevented by any cir-  
 cumstances or state of the system. —

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Lecture 50<sup>th</sup> February 24<sup>th</sup> 1815.

234.

*Senna ponderosa* or *Parytis*; the unripened only is used, & is particularly adapted to glandular and lymphatic diseases. Dr Crawford eulogizes it in *Scrophula* & *Cancer*; & Dr Clarke asserts, that cases of *Scrophula* in the W. Indies, which resisted bark &c. had often yielded to this medicine. Not Pierson also speaks highly of it in *Scrophula*, and obstinate syphilitic ulcers. The dose of the Tincture is gr. ℥. i. d. increased to gr. ℥. i. a. t. d.

Of *Calx of lime* we have already spoken under the head of *Antisthenes*. Exhibited in new milk, it is given to check vomiting, as a tonic, & as an antacid, in *Dyspepsia* &c. It is used as an astringent in the advanced stages of *Dysentery* and *Diarrhoea*. Externally, it is used for old ulcers, & with sweet oil for burns. — The Tincture of the *Muriate of lime* has been lately celebrated in *Scrophula*, & is given in doses of ℥ss to ℥i. —

The *Mineral acids*; The *Nitric* is the most active & useful. It was at one time considered as a cure for *dyphilitis*, but the result of experience is, that it is not adapted to the 1<sup>st</sup> stage, but is well suited to the secondary ones, & also to the *Mercurial diseases*. It is much used in *Hepatitis*, in *Dyspepsia* with liver complaints, and in cutaneous affections. ℥ij in ℔ij of water are to be taken daily. — It is also used as expectorant with *Lac. ammoniac*.

The *Sulphuric acid* is given chiefly in form of *Elixir vitriol*, ℥. v. ℥. — It is a mild tonic, & is used to create an appetite. It was formerly used in the *Neuroses*; & now in some hemorrhages; in *menorrhagia* I think it might be useful; in *Epistaxis* it was Sydenham's favourite. The *Lac* has of late been much used in the cutaneous eruptions; & it certainly cures *psora* & probably many others. It may be used externally for the same purposes; ℥i. to ℥i. last forms an ointment for *linca capitis* &c; but a much



Fowler's min. Sol. - R. arsenic

Carbon. potash.  $\text{ac gr 64.}$

Spt. Lavend. comp.  $\text{℥ss.}$

Boil the arsenic & potash in  $\text{℥ss.}$  of distilled  
water (in a sandbath) till dissolved. Strain &  
when cold add the Lavender & water  
enough to make  $\text{℥i}$  of the whole -

water mode is in solution,  $\frac{zj}{\text{of the acid}} \text{ to } \frac{zj}{\text{of the water}}$ , which is equal in efficacy to the ung. Sulphuris, & is free from the disagreeable smell.

Muriatic acid has been used in all the cases when nitric is recomd., & with similar effects. It done a manner of exhibiting it, the same.

Arsenic in its metallic state is inert, but at a high degree of temperature becomes an oxyd, or, as it is now said, an acid. This is the preparation used in medicine, & is presented in several forms; the most popular of which is the "Fowler's Mineral Solution", or a solution of the Arseniate of Potash; dose  $\text{gtt} \times v. \text{ t. d.}$  - The arseniate of Potash is also used in doses of  $\frac{1}{6}$  to  $\frac{1}{2}$  gr. And the acid or oxyd in pills is given in the same dose. Darwin preferred a solution (saturated) of this acid,  $\text{gtt. xviij.}$  My own conviction is, that there is no great superiority in either, but I generally use the min. sol. alone, & the oxyd, in combination.

It has recently been much employed, but it is in Intermitts, that it is most celebrated. That it is efficacious in them I am not going to deny, but I think its powers are much overrated. In all weak forms of Intermitt, approaching to Typhus, or occurring in Cachectic constitutions, it is inefficient & even injurious. Indeed this might be concluded from its effects on the system; for tho' ranked among the Tonics, it has no one property of this class; deriving its exhibition, it produces nausea, lassitude, debility, and afterwards extreme exhaustion, & edematous swellings of the limbs. Thus in the House, where our patients are all enfeebled, the med. has uniformly failed, & never has cured a single case of Intermitt. Even in circumstances propitious to it, it will not cure the disease, if at all obstinate. But it is better suited to children, in whom it generally cures the disease.

It has been disputed whether it ought only to be given during the apyrexia, or to be continued

*[The text on this page is extremely faint and illegible, appearing as a series of horizontal lines.]*



during the paroxysms I think it may be continued with perfect safety, but the only objection is that it increases the sickness.

It is very prompt in its effects, & if it do not cure the disease in 4 or 5 days, it may be laid aside. In some obstinate cases, a combination of bark & arsenic has succeeded; indeed some recommended arsenic as a preparation for the bark.

Besides intermittents, it has been used in many other diseases, in the Pleurisy, particularly Rheumatism. I have experimented with it but am not satisfied, that it was ever productive of the least essential service. It has been supposed to be adapted to the acute & inflammatory state, but no one would trust to it here; & in Chronic Rh., many other remedies are far more certain. Perhaps the only case of Rh., in which it ought to be used, is the Intermit. R. <sup>the Intermit. Rheumatism & Similars?</sup>

In the Neuroses, Chorea, Tetanus &c. of the last, some few cases from wounds have been cured by the free use of the Min. Solut. with Laudanum. I am now trying it in a very obstinate case of Spasmodic Asthma, & it has already mitigated the disease. In Angina pectoris, arsenic is reported to have been useful, & one case has been cured by it.

In some it has been strenuously recommended in glandular affections; if even it be serviceable, which I am inclined to doubt, it must be in those cases, caused or kept up by intermit. fever.

Of its use in Cancer, I have no experience, but I presume it must have some power in healing foul & obstinate ulcers, as it constitutes the basis of most Empyirical remedies for this disease, both internal & external.

Arsenic is now habitually employed in diseases of the skin, from Leprosy down to the vilest herpes. I have used in some of these diseases



in combination with cicuta, in some in 237.  
stances with advantage -

On the whole, I have tried this remedy  
with so little success, that the more I see of  
it, the more my confidence in it decreases.

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As a modification of the tonic power, we now proceed to speak of Astringents. Time will not allow us to investigate their modes of operandi, or to enter largely into their application to diseases. We shall 1<sup>st</sup> speak of the vegetable astringents, & then of the mineral.

The bark of the different species of oak. The English oak or *quercus Robur*. is used in doses of ℥ss of powder q. s. to suspend the paroxysms of an intermitt; also in hemorrhages, Chronic diarrhoea, & advanced Dysentery. But it is more used externally; as a gargle for diseases of the fauces, a wash in leucorrhoea, hemorrhoids & prolapsus ani.

Many of our native oaks are equally efficacious; White oak; the Spanish oak has <sup>not</sup> acquired a little reputation in gangrene, in intermitts &c. Some prefer the chestnut oak, but the black oak is less valuable, as it is liable to purge. — I have no experience of the internal use of either of the American species, but have no doubt, that they are entitled to attention; tho' I have no confidence in the reports, which make them equal or superior to the Cinchona.

Gallæ or Galls. These are mere excrecences from different trees, produced by the puncturing of an insect thro' the bark. — They in general possess the properties of the tree, on which they grow. The most active are brought from Aleppo, but our own are not destitute of power. They are used as astringents in Chronic diarrhoea, & in that of Phlegmisy — Of the infusion ℥ss, or of the powder grs ʒss to xxx. — But the power is much increased by the addition of creta &c.





℞. Creta, prep<sup>a</sup> ℥i. Infus. Gallar. ℥i. Laud. <sup>pt. x</sup>  
℥i. c. ℥p. q. t. h. - in this form it is an  
invaluable remedy.

Galls are used externally in hemorrhoids  
with great success, after inflammation has been  
subdued; but the ointment should be stronger  
than is usually made; 3 parts of oint to 2  
of powdered galls. - If the disease is situated  
higher up, a strong infusion of galls may  
be injected several times a day. The same  
is used as a wash in Leucorrhœa & in pro-  
lapsus or procidentia uteri. In gonorrhœa  
& gleet it is much used, & Dr Swediaur  
speaks highly of it in these diseases.

Vicus quercinus, or Mistletoe, a parasay-  
tical plant, possesses the properties of the  
tree on which it grows. It is an active as-  
tringent, & was formerly used in Epilepsy,  
of which some cures are related. It has  
also been said to have done good in Hy-  
stertis. I suspect it is adapted to nephri-  
tis - dose of bark - grs 4 to 15.

Kino was introduced into the West.  
Med. about half a Century ago & was ori-  
ginally brought from Africa. Even now it  
is not determined, what this substance  
is, but it is generally supposed, that what  
is found in our Shops, is an artificial mix-  
ture. But we sometimes meet with the  
pure kino, which has a very different  
appearance: it comes in large pieces,  
mixed with the bark & fibre of the plant;  
& has a mawkish & astringent taste - the  
fashionable has more the appearance of a  
resin or extract; & is possessed of powers  
far superior to the genuine. -

18. Oct. 1841. To the Hon. Secy. of the Navy  
Washington D.C.  
Dear Sir,  
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the proposed purchase of the schooner "Albatross" for the service of the Navy. I am very glad to hear that the Government is disposed to purchase this vessel, and I am sure that it will be found to be a most valuable addition to the fleet. I have no objection to the purchase of the "Albatross" on the condition that the Government will pay for the same the sum of \$10,000, which is the amount for which it was originally purchased. I am, Sir, very respectfully,  
Your obedient servant,  
J. M. Smith



Mr. Davy says kino contains more of the astring. 240.  
:gust principle than any other substance.

It may be given in the day, either  
in powder, Tincture or infusion.

Among the first who used this was Dr. John  
Fothergill, who found it successful in obstru-  
:tion in the uterus and in Menorrhagia, in which  
last Dr. Cullen also praises it highly. In Gon-  
:orrhoea Mr. Bell recommends the following  
R. Kino  $\mathfrak{z}\mathfrak{i}$  - Alum & mucilage off. Asab.  $\mathfrak{a}\mathfrak{a}$   $\mathfrak{z}\mathfrak{i}$ .  
Water  $\mathfrak{z}\mathfrak{i}$  fill. - I never used it, but should  
suppose it better adapted to Plethors, than to active  
Gonorrhoea.

In Diabetes & some affections of the Stomach,  
particularly pyrosis, it has been strongly  
recommended by Plumberton, who gives this  
formula: R. Kino  $\mathfrak{ss}$  X. Opium  $\mathfrak{ss}$  j. Jarab. q. s.  
ft. pill. ij. one q. 4<sup>th</sup> h. - I should use twice  
the quantity of kino. -

In this City kino has been considerably  
employed; <sup>in variety</sup> I have no idea that it is capable  
of curing intussus alone, but is often very useful  
in combination, & the following R. is a good  
one: R. Kino  $\mathfrak{z}\mathfrak{i}$ . Gentian  $\mathfrak{ss}$ . Opium  $\mathfrak{ss}$  ij. m. Dia-  
m. pulv. XII. one q. s. h. during the apyrexia.

Combined with Columbo, it is an active  
Cathartic, & this is one of the many anomalies  
from combinations of medicines.

Its most common use is in Diarrhoea,  
and in certain stages of Dysentery. Most  
phys. prefer the infusion, but I give it in  
Tincture in the following R. Tinct. kino  
and Coct. ppt.  $\mathfrak{a}\mathfrak{a}$   $\mathfrak{z}\mathfrak{i}$  Laud.  $\mathfrak{ss}$  x. Water  $\mathfrak{z}\mathfrak{i}$  m.

Catechu, or terra Japonica, is a gum resin, or  
an extract from the Mimosa Catechu.



042  
- [Catechu in Linct. is an excellent application for  
Psoriasis &c. - In Ulcers succeeding buboes, in  
which the edges have the wormeaten appearance,  
& the centre is healing, so that an island of new  
skin is formed; the Catechu is the best application  
that can be made; (after the venereal virus has been  
subdued by a mere course). it may be sprinkled  
on the ulcer from a bagpowdering, or if this do not  
answer, a wash as follows is very successful.  
℞. Catechu ℥ij - Sulph. Cup. & Sulph. Lime aa ℥j.  
Water ℥iv. m. wet the ulcer with it 8 or 10 times  
a day, or drop it with lint dipped in it. (This is the  
Ringworm ulcer.) - - - Dr. Physick]

like kino, it is easily soluble in water or alcohol.

It is a powerful astringent & is used in Europe in all the cases, in which kino is recommended. grs x v. t. d. of powder. - Union in proportion.

*Signum Campêcheense*; or *Hæmatonycton Campêcheianum*, Logwood - is conspicuously useful in Diarrhea, chronic Dysentery, & above all, in the advanced stages of cholera, and is used in infusion or decoction - the infus. is best for children, ʒss. pro re nata, & the decoct. for adults. -

Of ocrnative astringents, we have already mentioned the Bark, & several others, as the *uva ursi* under antilithics; since which I have heard of its utility in Dyspepsia & Pyrosis.

*Geranium maculatum* or Crowsfoot is actively astringent - As a styptic, a decoction of it is prompt & complete in its action - In affections of the stomach and bowels, in diarrhoea &c - it is a popular remedy, boiled in milk. - It is said that our Indians use it in Syphilis, but I do not know in what form of the disease. It might be useful as an injection in gonorrhea but they drink it; & possibly in this way it may be useful, as it is diuretic & serviceable in nephritic complaints. -

*Prinos verticillatus* or black alder grows in marshy grounds - the bark & berries are astringent, & used in wine or spirit. also in substance; in doses equal to those of Cinchona - It is said to have cured intumescence to be useful in sanguine &c. I have only used it in cutaneous affections, & here it is the best purifier of the blood, to use a vulgar expression, that I know, & will remove all species of herpes, when used as a diet drink.

- [Muriate peruvianum (juice of *Disopyras Virginiana*)  
are a most powerful astringent, perhaps the  
most so of any of the class. They may be preserved  
in brandy, & when used diluted largely with water.]  
D. Physick.



- I could swell the list of our native astringents, 242  
to a greater extent, but they have not been well  
examined, & their medical use is yet unknown.  
But before I leave them, I must say something  
of the root of the dewberry, which is the most  
active of all our astringents in some cases.  
In Diarrhoea and Chol. infantum I have  
scarcely ever used it without manifest ad-  
vantage.  $\text{ʒiij}$  ss. q. s. h. of a strong decoction to  
a child one or two years old.

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1797  
The first of the following is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1797. The second is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1798. The third is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1799. The fourth is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1800.

The first of the following is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1797. The second is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1798. The third is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1799. The fourth is a list of the names of the persons who have been admitted to the office of Justice of the Peace for the year 1800.

Lecture 52. March 1<sup>st</sup> 1813. 243.

Alum or Sulphate of alumine is found in all parts of the world, including our own Country, & is used as an astringent both internally and externally.

It has been used in intermittents, and not without benefit; Dr Cullen gave it with nutmeg but found it too irritating, while Dr Lind says, exhibited in this way, it is the most efficacious remedy we have, except bark. I have but little confidence in it in these cases, but no doubt it possesses some power. - Dr Chalmers used it with benefit in bilious fevers, & Dr Adair also with *Canc. cella alba*.

In the intestinal affections it has been very useful, as in Diarrhoea, protracted Dysentery & particularly Chol. infant. in its advanced stage, & is to be used with Laud. garabic & Crota. - It is also used to check other discharges, as Leucorrhoea & Diabetes, in which last Dr Dover first used it with success, & since him, its efficacy has been fully ascertained, & some complete cures effected.

But it is still more useful in hemorrhages, in which its best powers are manifested. it has been said to be adapted to all cases, but this is incorrect, for, as a stimulant, it cannot be admissible in active hemorrhage. Its use is now restricted to Uterine hem. in the treatment of which Dr Antelmout acquired some celebrity by the use of this article. But now we have some remedies decided by superior to it, & it is only in our case, that it





still maintaining its reputation, viz. in Menorrhagia depending on laxity of the uterine vessels. The dose of the powder is gr. v. to x. & if it nauseate, add some aromatic. But a neater mode is the alum whey -  $\mathfrak{z}\mathfrak{i}$  of alum boiled in  $\mathfrak{t}\mathfrak{i}\mathfrak{j}$  milk, or rather the boiling milk to be poured on the powdered alum.

It is used as a gargle, an injection in gleet, and as a collyrium, but in recent ophthalmia, much more relief will be obtained by the alum cure, made by rubbing alum in the white of an egg, till it coagulates; this forms a cold poultice for the eye. - Dissolved in water with Sulph. Live, it forms a styptic, & when burnt, is an excellent escharotic for ulcers.

It remains for me to treat of lead, & I shall speak only of two of its preparations; the Sacch. Lat. & Goulard's extract, the former a superacetate, & the latter a mere acetate of lead. Both are used externally, but only the former internally.

Sacch. Saturni gr. ij or iij to  $\mathfrak{z}\mathfrak{i}$  water forms an injection in gonorrhoea, & diluted, a collyrium in ophthalmia; in stronger solution, a discutient for bruises &c.

Goulard's extract is precisely similar to it in its effects, &  $\mathfrak{z}\mathfrak{i}$  about equals S. Lat. gr. j.

The Sacch. Lat. is used internally, nor is this a new practice; it was at one period much employed, but alarmed by some deleterious effects, physicians abandoned it. Of late it has been reintroduced, & very extensively used. -

— A Case of Epilepsy of 2 years standing. During which time 2 fits occurred almost every day. Dr. P. gave Sac Sat.  $\text{ij} \cdot \text{b. c.}$  till he produced Col. Pictorum, which cured the disease & the fits never returned. — Case of mania cured in the same way. — Dr. P. Physick. In other instances the same treatment produced not the least apparent benefit. — Dr. P. —



It has been tried by many in infants, with <sup>245</sup> considerable efficacy; it is stated, that on the Cant. lines, in some repactory cases, it was found superior to bark or arsenic. I have tried it sufficiently to convince me, that it rarely does good in these cases, & is at best a very precarious remedy.

In the Nervous. In Epilepsy, it has mitigated the paroxysms in some young patients, but I believe has never cured the disease. This affection requires the longer use of remedies, than can be made of lead. - In Chorea, it has also been tried, and with the same result. In Tetanus, Mr. Johnson proposed it, & it would probably do good, with the free use of Laudanum. In several forms of mania, it is used with camphor, but the efficacy of the lead is ambiguous. In Pertussis it is represented by some writers as almost an infallible remedy; but I have used it in several cases, & without the least advantage - I have also tried it in several cases of Asthma, but it produced not the slightest impression on the disease.

It is used in some diseases of the alimentary canal, Dyspepsia, Pyrosis &c. it may be useful in them, but I doubt it extremely. Also in Cholera & Diarrhoea, but judging from what I have seen, I should say that we had so many remedies superior to it, that to trust to it would be criminally tampering with the lives of our patients.

From what I have said, you will perceive that I have no confidence in lead in the above diseases, but I am now to hold a very different





In Hemorrhages it is a most useful medi<sup>c</sup> 246.  
vine & was used in New Eng<sup>d</sup> a century ago;  
but was abandoned on account of the terror in-  
spired by the publication, of Sir Geo. Baker Doctry.

The use of lead in these cases ought always  
to be preceded by copious evacuations, if any  
vital action exist, particularly in hæmorrhoids  
and flooding after abortion — Must be  
premised, the lead will often be useless &  
even injurious, & not a single lb. is to be  
prescribed, but repeated as long as any ac-  
tivity of pulse remain; & then the lead comes  
in as a most useful auxiliary.

In Uterine hæmorrhage immediately  
before or after labour, lead is unavailing,  
& immediate delivery of child or secundines  
is necessary; at same time Cold water is to  
be poured from some height on the abdomen,  
which I have never known fail in a single  
instance. But to the hæmorrhage in the  
unimpregnated state, lead is better ad-  
apted, & here I use it in doses of  $\text{ʒss}$  if with  
opii  $\text{ʒss}$  in pill, to be repeated as often as  
occasion requires, & I have given in the course  
of a few hours  $\text{ʒss}$  without any disagree-  
able consequence, except a little griping.

I think the doses generally used are too  
small, & that probable doses of  $\text{ʒss}$  & would  
often be much more efficacious, & might  
be given without any bad consequences.  
A Woman took this mistake  $\text{ʒi}$  at once, without  
any bad effects; but it is to be observed, that no  
med. is marked by so many anomalies as this.





*(Faint handwritten notes, possibly bleed-through from the reverse side)*

Alingments

Howellwood's, faint, undy

Dr. Hor. Sulphur 3j

What receipt

Nutrit. Potash

Dr. Bessemer

Dr. - what a 3j

off of a load 3j

Castings

Any for three Capital

Dr. Sulphur

Land - 3j

Sal ammoniac 3j

Dr -

Washers

Went for mid West

Dr. Sulphur 3j

Sulphur cup 3j

Amo. paper 3j

Ag. paper 3j

Dr. H. Lobo - went with

3j monomorphous

Dr. H. Lobo's division

to reject Citronary irrigation

Dr. H. Lobo 3j

Al. Ferbule 3j

Sulphur acid 3j

Dr. H. Lobo

Dr. H. Lobo

Acetic: from Selen. & Acidum

Dr. Loro. Sulphur 3j

Ag. Calc. 3j

(Aqua. Phlog. Selen.)

Dr. Loro. Sulphur 3j

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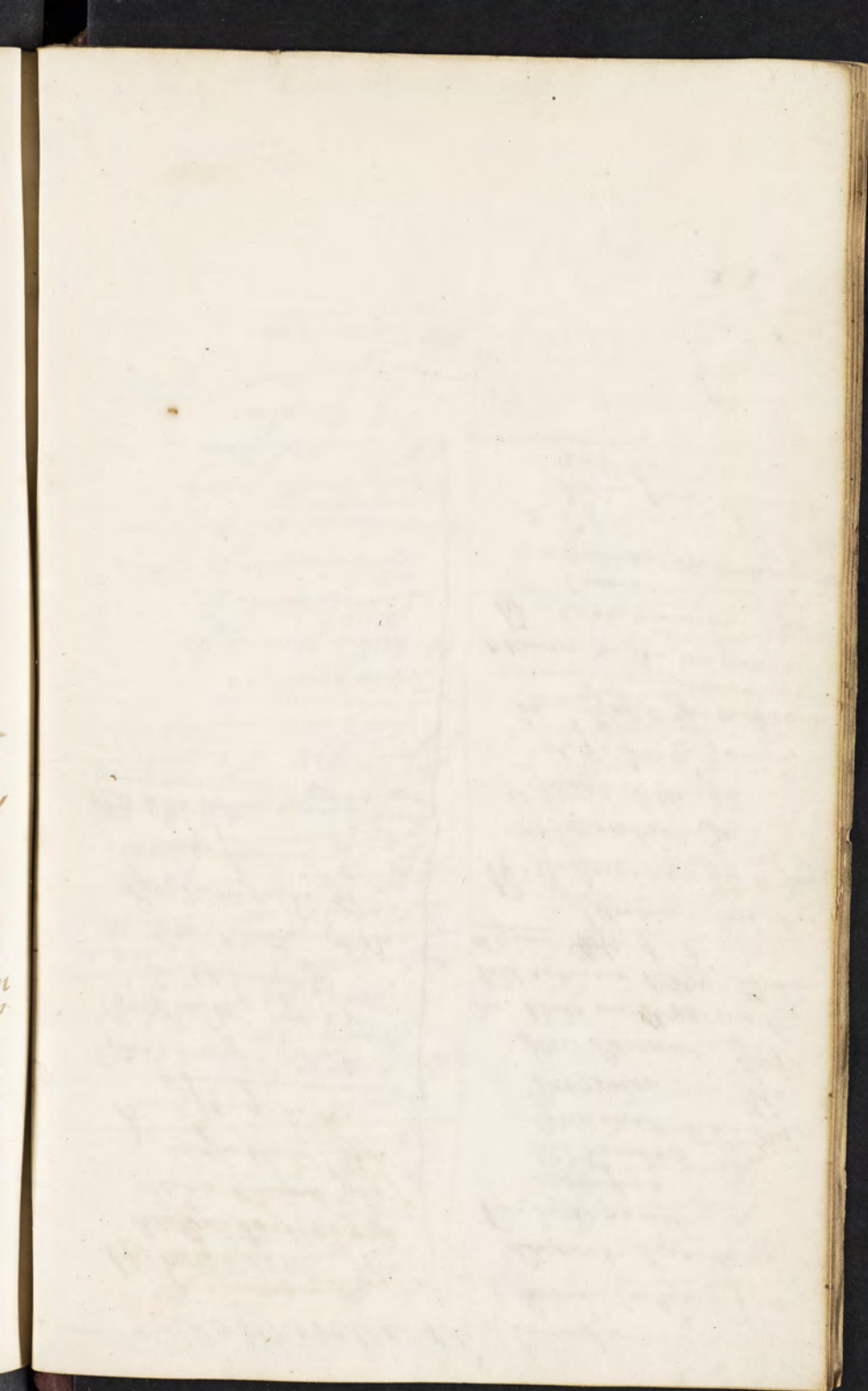


22. Opium  
 Counterpoise  
 Water  
 30 grains.

*Linnæa*  
*Spirulina linnæi*  
H. W. Perkinitt. 88.  
found in the water of an egg,  
and hatched with -  
(Glyptis in a red of symmetrical &c.)

Margt.  
 for the above  
 R. Blum  
 Agent - 20. 21.  
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Margt. for General South  
 also for the above  
 not intended. - 21. 20. 21.  
 R. Corcoran. Sub. 21.  
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15

Robert. Lumbard.

4. *Sarcophaga*.

1870

gracia de

Pheterson.

Der. Conant

1. Ford in 1874.

1891. 1. 2.

Quercus

St. J. Guarac.

Ag. native - 3

Dec. 21. 1877.

649. *Scirpus*

$$n = \frac{2}{3} \cdot 100 = 66\frac{2}{3}$$

Newton in the past

1777

Carphor

1740

20. in part - 1

99

Dr. August. Lodge Jr.

John Brown

one: 1000  
1000 - 1000 = 0

211-31.9.8.4.

12

*[Faint handwritten notes at the bottom of the page]*

4. abundant - 81.7

IX. *Phyllanthus*

At 9:15 A.M. 7/1

18. A. fontana - 3. 1. 2.

191

2







Islandmop jelly — 2 Lb. — 1 Lb. —  
Boil 3 or 4 Lb. Islandmop in  
three pints of water to a pint & half. Strain  
the liquid through a gauze & add sugar & thus  
give according to taste. This preparation is  
one half, pour it into an earthen vessel  
& set it cool. The same may be repeated  
with the rest. That remaining — Iscream to  
making the jelly, it should be sealed with  
boiling water & marked with the water  
comes off easily.

Botanik & Stimulating Pills etc

R. Ag. Ammon. ʒij.  
St. Steu. ʒij.  
M.

Staph. ʒi. bit.  
in carduus & pinguis & m...

R. Ag. Ammon. ʒi.  
Calc. Magn. ʒi.

Ag. Cinnamon. ʒij.

Ag. Fontan. ʒij.

M. ʒij. apte mear...

when the mucus is up...

Statis mixture -

R. Acet. ʒi.

Sack all. ʒij.

Ag. Dent. ʒij.

Ad. ʒij.

Get. pulp good by Sph...

R. Acet. ʒij. bit.

seum in Ag. Mouth ʒij. &

add Sand. ʒij. M.

ʒij. q. d. k.

ver. pulp of Horp.

R. Carbon. ammon. ʒi.

Gum Arabic - ʒij.

Sack all. ʒij.

Ag. pur. ʒij.

R. ʒij. q. o. k.

Camphorated mixture.

G. Camphor ʒi.

G. Myrrh ʒij.

Sack all. ʒij.

Ag. pur. ʒij. M.

R. ʒij. q. s. k.

R. Spt. Ether. ʒi.

Ether mixture.

ʒij. M.

ʒij. M.

ʒij. M.

ʒij. M.

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ʒij. M.

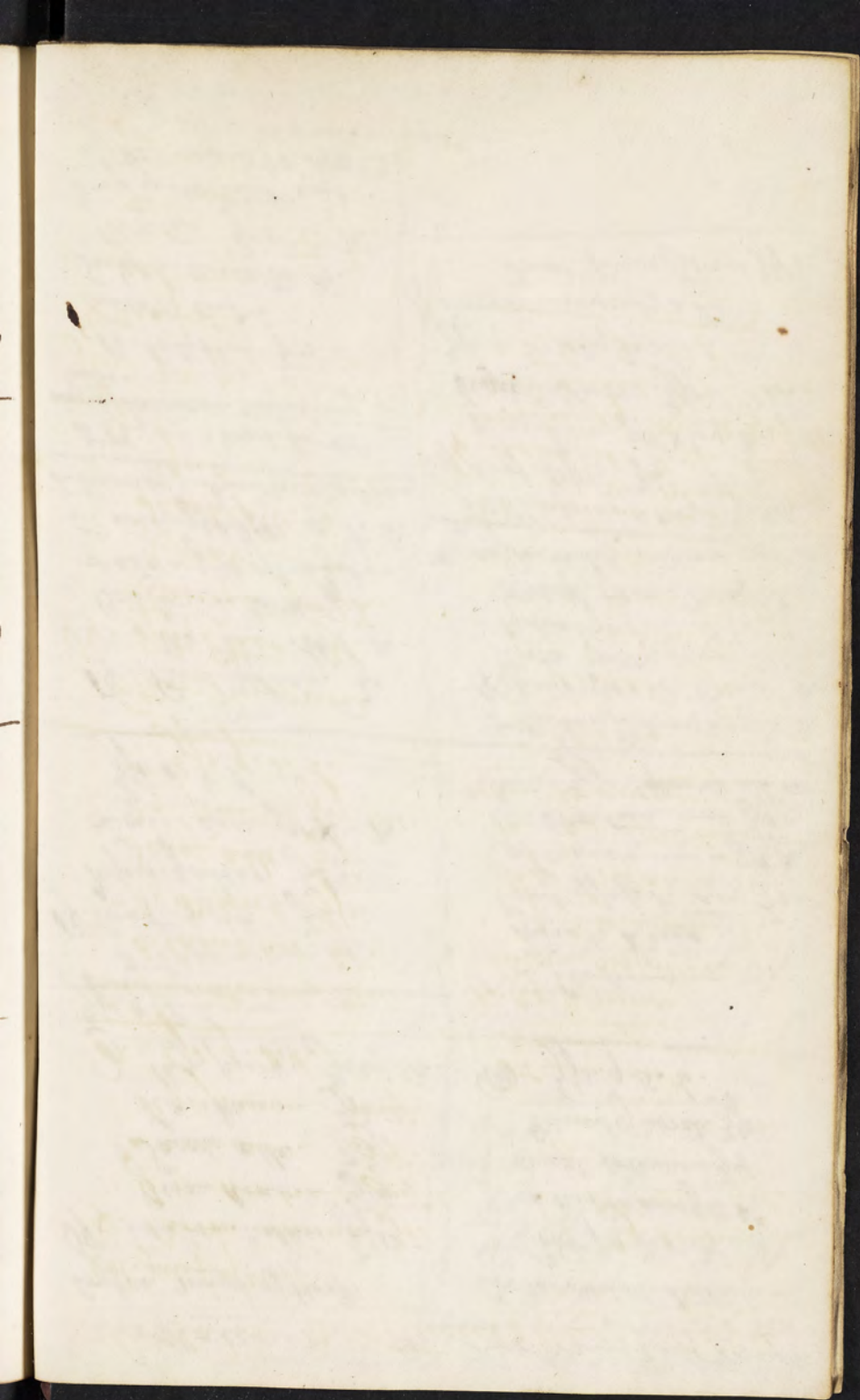
ʒij. M.

ʒij. M.

ʒij. M.

ʒij. M.

ʒij. M.





Cistaceae & Astringent

Cistaceae. myrt. Astringent.

Cist. pers. 27.

Cistaceae. 27.

Cist. cinam. 27.

Cist. g. s. f. 27.

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Cistaceae. myrt. Astringent.

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Cist. g. s. f. 27.

Cist. g. s. f. 27.

*Crithopsis - a common*

*Chromolaena odorata*  
(Thomson's plant)  
R. Crest. 1/2 pt. 3/4  
Succ. all. 3/4  
Tinct. Dandelion Comp. 3/4  
M. 3/4. 4. 2.

*Dr. Whysick's Symplicet gall*  
(mud & core)

*R. J. sub. gall. 3/4*  
*Chromolaena 3/4*  
*Eg. white 3/4. 1/2*

Put the ingredients into a  
coffee cup, upon the top of  
which two ports are creased to  
support a lump of loaf sugar.  
The brandy is then to be set  
on fire & the ports to be supplied  
with sugar as long as the  
brandy continues to burn -  
of the clear part of this a  
teaspoonful is to be taken  
every one, 2 or 3 times a more water

City mythers.

Quintiles of the first.

R. St. Rini. 3i.

Gum arab. 3i.

Dandelion 3i.

Sack all. 3i.

Aq. comm. 3i.

On. 3i. 3i. 3i.

They might. 3i. 3i.

R. St. Rini. 3i.

G. arab. 3i.

Sack all. 3i.

Dandelion 3i. IX.

Mint water 3i. 3i.

3i. 3i. 3i. 3i. 3i. 3i.

Extraction. 3i. 3i.

R. St. Rini. 3i.

G. arab. 3i.

Sack all. 3i.

Aq. 3i.

Dandelion 3i. 3i.

3i. 3i. 3i. 3i.

R. St. Rini. 3i.

Senna 3i. 3i.

(Chap.)





4 g. Ammoniac 3i.  
 Symplic 3i.  
 Gum Arabic 3i.  
 Ag. muc. 3i.  
 113p. 9. 5. 2.

Dr. Humer  
 R. gumm. 3i.  
 Milk acid 3i.  
 g. arab. 3i.  
 Ag. pur. 3i.  
 3p. pro re nata

R. Chalmaria 3i.  
 in 1/2 pint water with little  
 Ammoniac 3i.  
 Ag. pur. 3i.  
 113p. 9. 5. 2.

R. Chalmaria 3i.  
 Ag. pur. 3i.  
 113p. 9. 5. 2.

R. Gum Arabic 3i.  
 113p. 9. 5. 2.

Dr. Humer  
 R. gumm. 3i.  
 Milk acid 3i.  
 g. arab. 3i.  
 Ag. pur. 3i.  
 113p. 9. 5. 2.

R. Chalmaria 3i.  
 in 1/2 pint water with little  
 Ammoniac 3i.  
 Ag. pur. 3i.  
 113p. 9. 5. 2.

R. Chalmaria 3i.  
 Ag. pur. 3i.  
 113p. 9. 5. 2.

R. Gum Arabic 3i.  
 113p. 9. 5. 2.

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*Class 10a. No 26*

*Presented by  
Mr. Hugh Lenox Hodge*



